DOCUMENT RESUME

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IDENTIFIERS	*Educational Resources Information Center; ERIC

ABSTRACT

This compilation of ERIC abstracts dealing with natural resources is the second in a series that identifies research and instructional materials in selected occupational clusters. Approximately 340 documents were identified by means of computer searches of "Research in Education" from 1967 to December 1972. Instructions on how to use ERIC reference products are included. Intended for use in career education curriculum development, these abstracts include lists of descriptors, identifiers, and other pertinent information about documents in the occupational cluster dealing with natural resources. This document is related to 14 other cluster groupings, available as VT 018 790, VT 018 792, VT 018 793, and VT 018 897-VT 018 907 in this issue. (AG)

ED 073261

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Cluster Series 2

NATURAL RESOURCES

Occupational Cluster Series

Abstracts of Instructional and Research Materials

Compiled by

David H. Miller
Allen B. Moore

1973

The Center for Vocational and Technical Education
The Ohio State University
1960 Kenny Road
Columbus, Ohio 43210

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VT018794

MISSION OF THE CENTER

The Center for Vocational and Technical Education is an independent unit on The Ohio State University campus. It serves a catalytic role in establishing consortia to focus on relevant problems in vocational and technical education. The Center is comprehensive in its commitment and responsibility, multidisciplinary in its approach and interinstitutional in its program.

The Center's mission is to strengthen the capacity of state educational systems to provide effective occupational education programs consistent with the individual needs and manpower requirements by:

- Conducting research and development to fill voids in existing knowledge and to develop methods for applying knowledge.
- Programmatic focus on state leadership development, vocational teacher education, curriculum, vocational choice and adjustment.
- Stimulating and strengthening the capacity of other agencies and institutions to create durable solutions to significant problems.
- Providing a national information storage, retrieval and dissemination system for vocational and technical education through the affiliated ERIC Clearinghouse.

This publication was prepared pursuant to a contract with the National Institute of Education, U.S. Department of Health, Education and Welfare. Contractors undertaking such projects under Government sponsorship are encouraged to express freely their judgment in professional and technical matters. Points of view or opinions do not, therefore, necessarily represent official National Institute of Education position or policy.

PREFACE

Finding and using relevant information frequently is a major task for curriculum specialists, teachers, administrators and students. The Center for Vocational and Technical Education is dedicated to making useful and vital information accessible so that it may be used to improve school practices.

The Center has assembled, under one cover, research materials and instructional materials related to the Natural Resources occupational cluster. The materials included in this compilation, in the form of abstracts, are selections from Research in Education (RIE) from 1967 to June, 1972.

Other compilations of abstracts in the occupational cluster series, of which this is a part, include the areas of arts and humanities, construction, government, transportation, manufacturing, communication, trade, finance, education, health, welfare, recreation and entertainment, product services, and personal services.

We are indebted to Allen B. Moore, project director, Supportive Information for the Comprehensive Career Education Model, and David H. Miller, Information Specialist who coordinated the compilation of this publication.

We hope that this publication will prove valuable to you in your particular endeavor.

Robert E. Taylor
Director
The Center for Vocational
and Technical Education

Natural Resources Cluster

INTRODUCTION

This compilation of ERIC abstracts is the second in a series of publications which identify research and instructional materials dealing with selected occupational clusters. The 15 cluster areas included in the series have been identified by educational specialists as a means of suggesting a structure for career education curriculum development.

Other compilations of ERIC abstracts are available for the following cluster areas:

- Arts and Humanities--available as VT 018 790
- Construction (Construction Process) available as VT 018 792
- Government (Administrative Body) available as VT 018 793
- Transportation--available as VT 018 907
- Communication--available as VT 018 897
- Trade (Marketing) available as VT 018 898
- Finance (Banking) available as VT 018 899
- Education--available as VT 018 900
- Health--available as VT 018 901
- Welfare--available as VT 018 902
- Personal (Human) Services--available as VT 018 903
- Product Services--available as VT 018 904
- Recreation and Entertainment--available as VT 018 905
- Manufacturing--available as VT 018 906

Natural Resources Cluster

INDEX/RETRIEVAL TERMS

This compilation of abstracts represents selected documents identified from a search strategy which included the following ERIC terms:

- Instruction
- Curriculum
- Guides
- Manuals
- Resource Materials
- Teaching
- Natural Resources
- Water Resources
- Environmental Education
- Conservation
- Forestry
- Depleted Resources

How to Use ERIC Reference Products

Each ERIC reference publication includes:

1. Document Resume Section containing abstracts and bibliographic information
2. Subject and Author Index Section

Each resume presents information about a document's content, its source and availability. Sample resumes on the following pages are explained in detail.

The indexes help to locate the abstracts by page numbers and accession numbers. These indexes are: Subject Index, Author Index and Conversion of Document Number Index. Index terms used in the subject index are ERIC descriptors. Each document has been assigned several of these descriptors; therefore, each document title appears in the subject index several times.

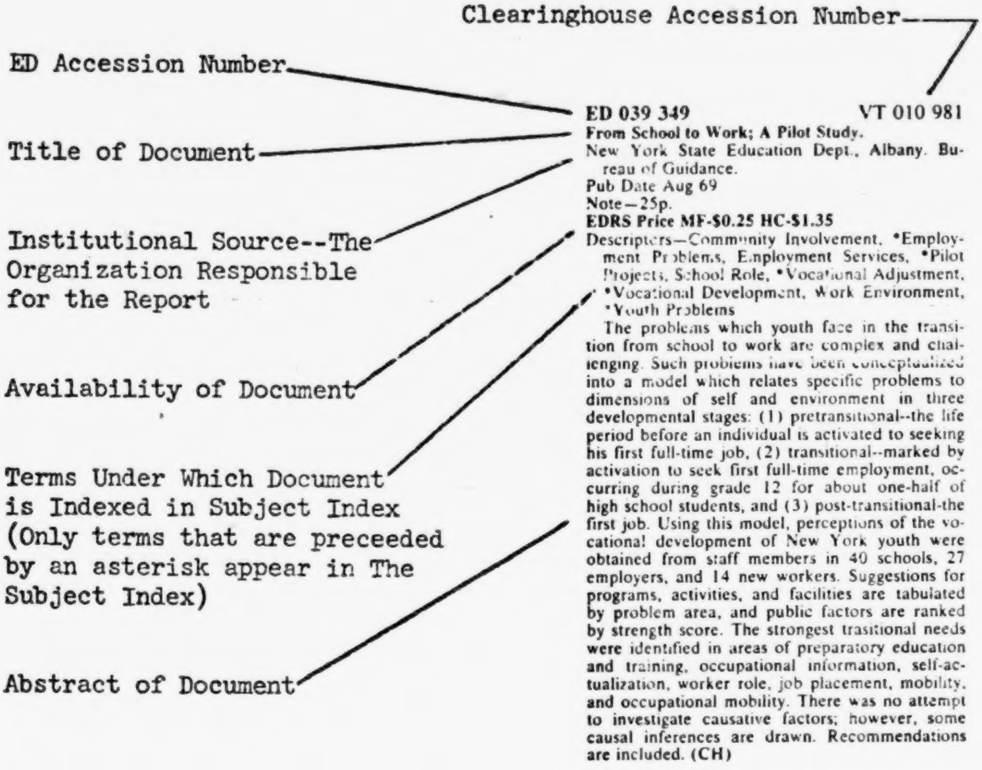
The full texts of documents are available from the original sources or from the ERIC Document Reproduction Service (EDRS) as microfiche or xerox reproductions.

Format of

Research in Education (RIE)

Document Resume

ED 039 349


Clearinghouse Accession Number
ED Accession Number
Title of Document
Institutional Source--The Organization Responsible for the Report
Availability of Document
Terms Under Which Document is Indexed in Subject Index (Only terms that are preceeded by an asterisk appear in The Subject Index)
Abstract of Document

ED 039 349 **VT 010 981**

From School to Work; A Pilot Study.

New York State Education Dept., Albany. Bureau of Guidance.

Pub Date Aug 69

Note—25p.

EDRS Price MF-$0.25 HC-$1.35

Descriptors—Community Involvement, *Employment Problems, Employment Services, *Pilot Projects, School Role, *Vocational Adjustment, *Vocational Development, Work Environment, *Youth Problems

The problems which youth face in the transition from school to work are complex and challenging. Such problems have been conceptualized into a model which relates specific problems to dimensions of self and environment in three developmental stages: (1) pretransitional--the life period before an individual is activated to seeking his first full-time job, (2) transitional--marked by activation to seek first full-time employment, occurring during grade 12 for about one-half of high school students, and (3) post-transitional-the first job. Using this model, perceptions of the vocational development of New York youth were obtained from staff members in 40 schools, 27 employers, and 14 new workers. Suggestions for programs, activities, and facilities are tabulated by problem area, and public factors are ranked by strength score. The strongest trasitional needs were identified in areas of preparatory education and training, occupational information, self-actualization, worker role, job placement, mobility, and occupational mobility. There was no attempt to investigate causative factors; however, some causal inferences are drawn. Recommendations are included. (CH)

Document Ordering Instructions

All documents cited in this compilation of abstracts are available in their full text. Availability is by one of the options listed below:

1. ORIGINAL COPY FROM PUBLISHER OR SUPPLIER

   These documents have an availability listed in the resume. Often such documents are not available by any other means.

2. MICROFICHE AND HARD COPY REPRODUCTSION

   Documents with ED numbers are usually available individually on microfiche ($0.65 a title) or paper copy (xerox - $3.29 per 100 pages or fraction thereof) from:

   ERIC Document Reproduction Service (EDRS)
   P. O. Drawer O
   Bethesda, Maryland 20014

   Orders must specify ED number.

NATURAL RESOURCES

Occupational Cluster Series

Abstracts of Instructional and Research Materials

ACCESSION NUMBERS: ED059250 TM001064

PUBLICATION DATE: AUG 71

TITLE: AN EVALUATION OF TWO PROGRAMMES OF THE MEDIA DEVELOPMENT CENTRE, ERIC HAMBER SECONDARY SCHOOL, VANCOUVER, B. C., FOR THE 1970-71 SCHOOL YEAR.

PERSONAL AUTHOR: MULHOLLAND, J.; AND OTHERS

INSTITUTION CODE: BBB05672

DESCRIPTOR: COMMUNICATIONS; COURSE DESCRIPTIONS; *COURSE EVALUATION; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; EXPERIMENTAL PROGRAMS; GEOGRAPHY INSTRUCTION; GRADE 9; GRADE 12; INSTRUCTIONAL MATERIALS; *MASS MEDIA; PROGRAM EVALUATION; QUESTIONNAIRES; *SECONDARY EDUCATION; *SOCIAL STUDIES; STUDENT ATTITUDES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 19P.

ISSUE: RIEMAY72

THIS PAPER EVALUATES TWO EXPERIMENTAL SOCIAL STUDIES COURSES, MASS COMMUNICATION (GRADE 9) AND MAN AND HIS ENVIRONMENT (GRADE 12); BOTH WERE JUDGED TO HAVE MERIT. A COPY OF A QUESTIONNAIRE GIVEN TO THE NINTH GRADERS, STUDENT RESPONSES, AND A DESCRIPTION OF THE MEDIA DEVELOPMENT CENTRE AT THE TEST SCHOOL ARE INCLUDED. (DLG)

REPORT NUMBER: RR-71-23

INSTITUTION NAME: VANCOUVER BOARD OF SCHOOL TRUSTEES (BRITISH COLUMBIA).

ACCESSION NUMBERS: ED059110 SO001965

PUBLICATION DATE: AUG 71

TITLE: PORT SIVAD: A LOCATIONAL DECISION GAME FOR A NOXIOUS PUBLIC FACILITY.

PERSONAL AUTHOR: JAKUBS, JOHN F.; AND OTHERS

INSTITUTION CODE: BBB05882

DESCRIPTOR: CITIZEN PARTICIPATION; CITY GOVERNMENT; *CITY PLANNING; CIVIL DISOBEDIENCE; CLASSROOM GAMES; COMMUNITY ACTION; DECISION MAKING; *EDUCATIONAL GAMES; ENVIRONMENTAL EDUCATION; GEOGRAPHIC LOCATION; GEOGRAPHY; *GEOGRAPHY INSTRUCTION; HIGHER EDUCATION; *HUMAN GEOGRAPHY; PUBLIC AFFAIRS EDUCATION; PUBLIC FACILITIES; *SIMULATION; SOCIAL ACTION; URBAN ENVIRONMENT; URBAN STUDIES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 63P.; DISCUSSION PAPER 22

ISSUE: RIEMAY72

THE PROJECT PRESENTED HERE PROVIDES A ROLE-PLAYING GAME SIMULATION THAT POINTS OUT THE COMPLEXITIES OF LOCATIONAL DECISION AND INDICATES WAYS IN WHICH THOSE DECISIONS MIGHT BE INFLUENCES BY VARIOUS PUBLIC AND PRIVATE CITIZENS GROUPS. IT FOCUSES ON THE BARGAINING, CITIZEN REACTION, AND POSSIBLE SIDE PAYMENTS. DESIGNED AS A HEURISTIC DEVISE, THE GAME FOCUSES UPON A NUMBER OF ISSUES: 1) INEQUITIES IN THE LOCATION OF NOXIOUS PUBLIC FACILITIES: 2) THE EFFECT OF CITIZEN ORGANIZATION ON GOVERNMENTAL DECISION-MAKING PROCESSES; 3) POTENTIAL INFLUENCE OF MONEY POWER ON POLITICS; 4) CIVIL DISOBEDIENCE AS AN INSTRUMENT OF POWER; 5) THE PRESSURE OF TIME ON DECISION MAKING; AND, 6) THE OVERALL NATURE OF GROUP INTERACTION WITH REGARD TO LOCATIONAL DECISIONS. THE TOTAL NUMBER OF PLAYERS MUST BE AT LEAST FIFTEEN, AND AN IDEAL NUMBER WOULD FALL BETWEEN THIRTY AND SIXTY. THE THREE MAJOR SECTIONS OF THE PAPER ARE: 1) THE GAME MATERIALS IN THEIR ENTIRETY; 2) INSTRUCTION AND COMMENTS ON THE ORGANIZATION OF THE GAME, ILLUSTRATING POSSIBLE OUTCOMES AND POINTS TO BE HIGHLIGHTED IN CLASS DISCUSSIONS; AND, 3) A COMMENTARY ON ONE PLAY OF THE GAME. THE GAME HAS BEEN PLAYED PRIMARILY WITH UNDERGRADUATE STUDENTS, BUT IT IS EQUALLY INSTRUCTIVE FOR INDIVIDUALS MORE DIRECTLY INVOLVED IN LOCATIONAL DECISIONS. (AUTHOR/JLB)

INSTITUTION NAME: OHIO STATE UNIV., COLUMBUS. DEPT. OF GEOGRAPHY.

ACCESSION NUMBERS: ED059092 SE013300

PUBLICATION DATE: 72

TITLE: ECOLOGY, POLLUTION, ENVIRONMENT.

PERSONAL AUTHOR: TURK, AMOS; AND OTHERS

DESCRIPTOR: BIOLOGICAL SCIENCES; ECOLOGY; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; PHYSICAL SCIENCES; POLLUTION; *SUPPLEMENTARY TEXTBOOKS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 217P.

ISSUE: RIEMAY72

ELEMENTS OF ENVIRONMENTAL SCIENCE AND HOW THE SCIENCE IS RELATED TO THE MORE TRADITIONALLY ESTABLISHED DISCIPLINES ARE EXPLORED IN THIS SUPPLEMENTARY TEXT. TWO ASPECTS OF ENVIRONMENTAL SCIENCE ARE CONSIDERED--SUBJECT MATTER AND DECISION MAKING. RELEVANT BACKGROUND MATERIAL IN THE PHYSICAL SCIENCES IS PRESENTED UNDER THE FOLLOWING TOPICS: ECOLOGY, AGRICULTURAL ENVIRONMENTS, PESTICIDES, RADIOACTIVE WASTES, AIR POLLUTION, WATER POLLUTION, SOLID WASTES, GROWTH OF HUMAN POPULATIONS, THERMAL POLLUTION, AND NOISE. STUDY PROBLEMS ARE GIVEN IN EACH CHAPTER WITH NUMERICAL ANSWERS PROVIDED FOR THOSE REQUIRING COMPUTATIONS OR MATHEMATICAL REASONING. THE SECOND ASPECT DEALS WITH THE DECISIONS PEOPLE MAKE ABOUT ENVIRONMENTAL PROBLEMS. A DISCUSSION OF SOCIAL PROBLEMS AND ISSUES IS OFFERED TO SHOW HOW VARIOUS SCIENTIFIC AND ECONOMIC FACTORS MUST BE TAKEN INTO ACCOUNT SO THAT FINAL JUDGEMENTS DO NOT LEAD TO UNWANTED RESULTS. BIBLIOGRAPHIC REFERENCES APPEAR AT THE END OF EACH CHAPTER WITH THE APPENDIX GIVING INFORMATION ON UNITS OF MEASUREMENT AND CHEMICAL FORMULAS. THE TEXT WOULD BE USEFUL FOR STUDENTS IN AN INTRODUCTORY ENVIRONMENTAL SCIENCE COURSE AS WELL AS SUPPLEMENT A STANDARD COURSE IN BIOLOGY OR CHEMISTRY. (BL)

AVAILABILITY: W.B. SAUNDERS COMPANY, WEST WASHINGTON SQUARE, PHILADELPHIA, PENNSYLVANIA 19105

ACCESSION NUMBERS: ED059085 SE013282

PUBLICATION DATE: 70

TITLE: ISLAND NATURAL SCIENCE SCHOOL.

INSTITUTION CODE: SF088000

DESCRIPTOR: CONSERVATION EDUCATION; *ECOLOGY; *GRADE 6; *INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; *MANUALS; NATURAL RESOURCES; *OUTDOOR EDUCATION; STUDENT PROJECTS; UNITS OF STUDY (SUBJECT FIELDS)

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 135P.

ISSUE: RIEMAY72

PREPARED FOR STUDENTS IN GRADE SIX ATTENDING THE ISLAND NATURAL SCIENCE SCHOOL, TORONTO, ONTARIO, CANADA, THIS BOOKLET OFFERS INFORMATION AND SUGGESTS ACTIVITIES IN THE AREAS OF ECOLOGY, CONSERVATION, NATURAL RESOURCES, AND OUTDOOR RECREATION. INTRODUCTORY MATERIAL DESCRIBES ISLAND LORE, ITS FORMATION AND SIGNIFICANT FEATURES, FOLLOWED BY UNITS OF STUDY ON CONSERVATION, ECOLOGY, BIOLOGY, PLANTS, ANIMALS, POND ECOLOGY, BIRDS, BEES, WEATHER, GEOLOGY, AND FARMING. THE WORKBOOK FORMAT ALLOWS STUDENTS TO WRITE IN ANSWERS TO QUESTIONS ASKED OR NOTE OBSERVATIONS GAINED FROM THE LEARNING ACTIVITIES. GENERAL BACKGROUND INFORMATION ON THE SUBJECT IS ALSO PROVIDED. OUTDOOR PURSUITS, THE FINAL UNIT, OFFERS IDEAS FOR ORIENTEERING, BAIT CASTING, ARCHERY, TARGET SHOOTING, AND SURVIVAL. FOLLOW-UP ACTIVITIES, REFERENCES, EQUIPMENT LISTS, AND GENERAL STATEMENTS ABOUT ECOLOGY CONCLUDE THIS STUDENT MANUAL. (BL)

INSTITUTION NAME: TORONTO BOARD OF EDUCATION (ONTARIO).

ACCESSION NUMBERS: ED059082 SE013279

PUBLICATION DATE: FEB 72

TITLE: EXPLORING THE WORLD. AN ENVIRONMENTAL EDUCATION HANDBOOK FOR STUDENTS.

INSTITUTION CODE: BBB05369; OWL23410

DESCRIPTOR: *ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; RESEARCH; *STUDENT PROJECTS; *STUDY GUIDES; UNIT PLAN

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 135P.

ISSUE: RIEMAY72

WRITTEN PRINCIPALLY FOR STUDENTS IN GRADES FIVE THROUGH SEVEN, THIS HANDBOOK FURNISHES EXPERIMENTS, INVESTIGATIONS, AND FIELD STUDIES FOR STUDENTS TO COMPLETE LARGELY ON THEIR OWN. GAINING A FOUNDATION OF THE SKILLS AND KNOWLEDGE TO BECOME ENVIRONMENTALLY LITERATE CITIZENS IS THE GOAL OF THE ACTIVITIES. UNITS OF STUDY CONSIDER PLANT ECOLOGY, AQUATIC ECOLOGY, PLOT STUDIES, ENVIRONMENTAL DEGRADATION, GEOGRAPHY, AND MEASUREMENT. EACH EXERCISE OUTLINES GENERAL BACKGROUND INFORMATION, OBJECTIVES, AND PROCEDURES FOR CONDUCTING THE ACTIVITY FOLLOWED BY A DATA SHEET TO RECORD THE OBSERVATIONS. A KEY TO THE WOODY PLANTS OF THE BEARTOOTH MOUNTAINS IS APPENDED. (BL)

INSTITUTION NAME: BILLINGS PUBLIC SCHOOLS, MONT.; EASTERN MONTANA COLL., BILLINGS.

ACCESSION NUMBERS: ED059079 SE013271

PUBLICATION DATE: 71

TITLE: OUTDOOR LABORATORY DEVELOPMENT.

PERSONAL AUTHOR: BUSBEE, CYRIL B.

INSTITUTION CODE: UZ080311

DESCRIPTOR: EDUCATIONAL FACILITIES; *GUIDES; *LABORATORIES; NATURAL RESOURCES; *OUTDOOR EDUCATION; PLANNING; *SITE DEVELOPMENT; SITE SELECTION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 13P.

ISSUE: RIEMAY72

GUIDELINES FOR DEVELOPING AN OUTDOOR, EDUCATIONAL LABORATORY ARE OFFERED IN THIS BOOKLET. STRESS IS PLACED ON ESTABLISHING A LABORATORY THAT CAN BE USED WITH ALL ASPECTS OF THE SCHOOL'S EXISTING CURRICULUM. ITEMS REGARDING ORGANIZATION OF A PLANNING AND GUIDANCE COMMITTEE, USER REQUIREMENTS, CONSTRUCTION CONSIDERATIONS TO MAINTAIN THE NATURAL ENVIRONMENT, AND UNIQUE DESIGN FEATURES ARE ELABORATED. ALSO INCLUDED IS A CHECKLIST TO AID IN IDENTIFYING ENVIRONMENTAL-CONSERVATION ACTIVITIES THAT CAN BE CONDUCTED ON SCHOOL PROPERTY, A BIBLIOGRAPHY, AND A SAMPLE LAYOUT PLAN FOR AN OUTDOOR LABORATORY. (BL)

INSTITUTION NAME: SOUTH CAROLINA STATE DEPT. OF EDUCATION, COLUMBIA.

ACCESSION NUMBERS: ED059073 SE013246

PUBLICATION DATE: 71

TITLE: EQ INDEX, 1971.

INSTITUTION CODE: BBB04043

DESCRIPTOR: *AUDIOVISUAL AIDS; CONSERVATION EDUCATION; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; PERCEPTION; *QUALITY CONTROL; TEACHING GUIDES; *UNIT PLAN

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 100P.

ISSUE: RIEMAY72

TO ASSESS THE STATUS OF OUR ENVIRONMENTAL QUALITY AND DETERMINE IF WE ARE WINNING OR LOSING THE CAMPAIGN TO SAVE OUR ENVIRONMENT, THE NATIONAL WILDLIFE FEDERATION HAS DEVELOPED THIS "EQ" KIT. MULTI-MEDIA MATERIALS HELP MEASURE ONE'S ATTITUDES AND ACTIVITIES IN THE AREAS OF AIR, WATER, FORESTS, WILDLIFE, MINERALS, AND SOIL CONSERVATION. LIVING SPACE, RECYCLING WASTES, AND POPULATION ARE ALSO CONSIDERED. SIX ELEMENTS CONSTITUTE THE KIT: (1) A FILMSTRIP, (2) PRINTED NARRATION, (3) RECORD TO ACCOMPANY THE FILMSTRIP, (4) "TO SAVE THE EARTH" BOOKLET, A THREE-STEP PROGRAM FOR DIRECT COMMUNITY ACTION, (5) EQ REFERENCE GUIDE AND BIBLIOGRAPHY OF SOURCE AND BACKGROUND MATERIALS, AND (6) 25 REPRINTS OF THE "1971 EQ INDEX." SCHOOL CLASSES, CIVIC GROUPS, COMMUNITY CENTERS, AND FAMILY GROUPS CAN UTILIZE THE MATERIALS AS A STUDY UNIT ABOUT THE ENVIRONMENT, AN ANALYSIS OF WHAT IS HAPPENING TO RESOURCES, AND A CONSIDERATION OF WHAT CAN BE DONE TO IMPROVE THE ENVIRONMENT. (BL)

AVAILABILITY: NATIONAL WILDLIFE FEDERATION, 1412 16TH STREET, N.W., WASHINGTON, D.C. 20036 ($10.00)

INSTITUTION NAME: NATIONAL WILDLIFE FEDERATION, WASHINGTON, D. C.

ACCESSION NUMBERS: ED059060 SE013185

PUBLICATION DATE: 70

TITLE: WEATHER IN MOTION.

INSTITUTION CODE: FGK56097

DESCRIPTOR: *AEROSPACE EDUCATION; *AEROSPACE TECHNOLOGY; COMMUNICATION SATELLITES; *EARTH SCIENCE; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *METEOROLOGY; PHOTOGRAPHY

IDENTIFIER: NASA; *SPACE SCIENCES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 9P.

ISSUE: RIEMAY72

THE ATS-111 WEATHER SATELLITE, LAUNCHED ON NOVEMBER 18, 1967, IN A SYNCHRONOUS EARTH ORBIT 22,000 MILES ABOVE THE EQUATOR, IS DESCRIBED IN THIS FOLDER. THE DESCRIPTION IS DIVIDED INTO THESE TOPICS: THE SATELLITE, THE CAMERA, THE DISPLAY, THE PICTURE INFORMATION, AND THE BENEFICIAL USE OF THE SATELLITE. PHOTOGRAPHS FROM THE SATELLITE ARE INCLUDED. (PR)

REPORT NUMBER: NASA-EP-79

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($0.50)

INSTITUTION NAME: NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED059035 SE012432

PUBLICATION DATE: 68

TITLE: A DICTIONARY OF MINING, MINERAL AND RELATED TERMS.

PERSONAL AUTHOR: THRUSH, PAUL W., COMP.

INSTITUTION CODE: BBB03590

DESCRIPTOR: DEFINITIONS; *DICTIONARIES; *EARTH SCIENCE; GEOLOGY; *NATURAL RESOURCES; REFERENCE BOOKS; RESOURCE MATERIALS

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 1,275P.

ISSUE: RIEMAY72

THIS DICTIONARY CONTAINS ABOUT 55,000 TERMS WITH APPROXIMATELY 150,000 DEFINITIONS. THESE TERMS ARE OF BOTH A TECHNICAL AND LOCAL NATURE AND APPLY TO METAL MINING, COAL MINING, QUARRYING, GEOLOGY, METALLURGY, CERAMICS AND CLAYS, GLASSMAKING, MINERALS AND MINERALOGY. AND GENERAL TERMINOLOGY. PETROLEUM, NATURAL GAS, AND LEGAL MINING TERMINOLOGY, UNLESS OF A GENERAL NATURE, HAS BEEN EXCLUDED, AS HAS BEEN FOREIGN TERMINOLOGY WHERE THERE IS AN ENGLISH EQUIVALENT. THOSE SPANISH-AMERICAN AND MEXICAN TERMS STILL USED IN THE SOUTHWESTERN UNITED STATES HAVE BEEN RETAINED. MANY TERMS ARE IDENTIFIED BY THE COUNTRY OR AREA OF ORIGIN. OTHERS CAN BE IDENTIFIED BY EXAMINING THE SOURCE FOLLOWING EACH DEFINITION. THESE SOURCES ARE COMPLETELY IDENTIFIED, WITH FULL BIBLIOGRAPHICAL INFORMATION, IN THE LIST OF AUTHORITIES AND SOURCES IN THE BACK OF THE DICTIONARY. A CONSULTATION OF THIS LIST CAN ALSO AID IN ESTABLISHING THE RECENCY OF THE DEFINITION. (AUTHOR/PR)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE. WASHINGTON, D.C. 20402 ($8.50)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. BUREAU OF MINES.

ACCESSION NUMBERS: ED058462 VT014678

PUBLICATION DATE: 71

TITLE: A DESCRIPTION AND SOURCE LISTING OF CURRICULUM MATERIALS IN AGRICULTURAL EDUCATION, 1971-1972.

INSTITUTION CODE: BBB01335

DESCRIPTOR: *AGRICULTURAL EDUCATION; AGRICULTURAL ENGINEERING; AGRICULTURAL OCCUPATIONS; AGRONOMY; ANIMAL SCIENCE; *ANNOTATED BIBLIOGRAPHIES; DISEASES; FARM MANAGEMENT; FIELD CROPS; FORESTRY; HORTICULTURE; *INFORMATION SOURCES; *INSTRUCTIONAL MATERIALS; PESTICIDES; *RESOURCE MATERIALS; SOIL SCIENCE

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 27P.

ISSUE: RIEAPR72

MEMBERS OF THE CURRICULUM MATERIALS COMMITTEE COLLECT MATERIALS AVAILABLE TO THEM PRIOR TO EACH AMERICAN VOCATIONAL ASSOCIATION MEETING. THE RESULTING BIBLIOGRAPHY CONTAINS CURRENT, NON-COMMERCIAL MATERIALS DEVELOPED BY PERSONS IN VOCATIONAL EDUCATION IN AGRICULTURE FOR USE IN THAT FIELD, BUT OF INTEREST BEYOND THE STATE IN WHICH IT WAS DEVELOPED. VOCATIONAL AGRICULTURE TEACHERS, AGRICULTURAL SUPERVISORS, AND AGRICULTURAL TEACHER EDUCATORS SHOULD FIND IT USEFUL. THIS 1971-72 ANNOTATED BIBLIOGRAPHY PRESENTS 169 REFERENCES CLASSIFIED ACCORDING TO THE AGDEX FILING SYSTEM. SUBJECTS COVERED ARE: (1) FIELD CROPS, (2) HORTICULTURE, (3) FORESTRY, (4) ANIMAL SCIENCE, (5) SOILS, (6) DISEASES AND PESTS, (7) AGRICULTURAL ENGINEERING, (8) AGRICULTURAL ECONOMICS, (9) AGRICULTURAL OCCUPATIONS, AND (10) PROFESSIONAL. (AW)

AVAILABILITY: VOCATIONAL AGRICULTURE SERVICE, 434 MUMFORD HALL, URBANA, ILLINOIS 61801

INSTITUTION NAME: AMERICAN VOCATIONAL ASSOCIATION, WASHINGTON, D.C. AGRICULTURAL EDUCATION DIVISION.

ACCESSION NUMBERS: ED058458 VT014612

PUBLICATION DATE: 71

TITLE: INDUSTRIAL ARTS AND ENVIRONMENTAL EDUCATION: ENVIRONMENTAL CONCEPTS JUDGED APPLICABLE TO INDUSTRIAL ARTS TEACHING AREAS BY INDUSTRIAL ARTS TEACHER EDUCATORS.

PERSONAL AUTHOR: CAULEY, MICHAEL JON

DESCRIPTOR: COMPARATIVE ANALYSIS; CONCEPT FORMATION; CURRICULUM PLANNING; DOCTORAL THESES; *ENVIRONMENTAL EDUCATION; *INDUSTRIAL ARTS; *RELATIONSHIP; RELEVANCE (EDUCATION); *TEACHER ATTITUDES; *TEACHER EDUCATORS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 141P.; ED.D. DISSERTATION, UNIVERSITY OF NORTHERN COLORADO

ISSUE: RIEAPR72

TO ESTABLISH A DEFINITE RELATIONSHIP BETWEEN INDUSTRIAL ARTS AND ENVIRONMENTAL EDUCATION, AN ATTEMPT WAS MADE TO DETERMINE WHICH ENVIRONMENTAL CONCEPTS SHOULD BE TAUGHT IN INDUSTRIAL ARTS AS A SUBJECT MATTER AREA, AND WHICH CONCEPTS SHOULD BE TAUGHT IN THE VARIOUS TEACHING AREAS WITHIN THE TRADITIONAL INDUSTRIAL ARTS PROGRAMS. A QUALIFIED JURY SELECTED 53 CONCEPTS, WHICH WERE CATEGORIZED BY 313 INDUSTRIAL ARTS TEACHER EDUCATORS IN SPECIFIC TEACHING AREAS. IT WAS FOUND THAT 52 OF THE 53 ENVIRONMENTAL CONCEPTS WERE CONSIDERED APPLICABLE TO THE INDUSTRIAL ARTS TEACHING AREAS AT THE 66 PERCENT LEVEL OF AGREEMENT. PERCENTAGE FIGURES OF THE TOTAL WERE DERIVED TO INDICATE THOSE CONCEPTS MOST APPLICABLE TO SPECIFIC AREAS, WHICH ARE: 3.8 PERCENT TO EACH OF THE AREAS OF METALS, GRAPHIC ARTS, AND PLASTICS-CRAFTS, 17.3 PERCENT TO DRAFTING, 23.1 PERCENT TO POWER, AND 48.1 PERCENT FOR WOODS. IT WAS CONCLUDED THAT THERE IS A CONCRETE RELATIONSHIP BETWEEN INDUSTRIAL ARTS AND ENVIRONMENTAL EDUCATION, AND THAT THE CONCEPTS USED IN THIS STUDY SHOULD BE INCLUDED IN THE TRADITIONAL INDUSTRIAL ARTS TEACHER EDUCATOR PROGRAMS. (AUTHOR/GEB)

AVAILABILITY: UNIVERSITY MICROFILMS, INC., P.O. BOX 1764, ANN ARBOR, MICHIGAN 48106 (ORDER NO. 72-13307, MF $4.00; XEROGRAPHY $10.00)

ACCESSION NUMBERS: ED058129 SO002249

PUBLICATION DATE: JUL 71

TITLE: EVALUATION OF ENVIRONMENTAL EDUCATION IN THE SEDRO-WOOLLEY SCHOOL DISTRICT.

PERSONAL AUTHOR: LUNNEBORG, PATRICIA W.; LUNNEBORG, CLIFFORD E.

INSTITUTION CODE: ZBQ93610

DESCRIPTOR: CHANGING ATTITUDES; *CLASSROOM RESEARCH; CURRICULUM EVALUATION; *ECOLOGY; ELEMENTARY GRADES; ELEMENTARY SCHOOL TEACHERS; *ENVIRONMENTAL EDUCATION; INSERVICE PROGRAMS; *INSERVICE TEACHER EDUCATION; PROGRAM EVALUATION; SECONDARY GRADES; SECONDARY SCHOOL TEACHERS; *TEACHER DEVELOPED MATERIALS; TEACHER WORKSHOPS

IDENTIFIER: *VALUES EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 66P.

ISSUE: RIEAPR72

THIS REPORT DETAILS THE EVALUATION OF 25 TEACHERS WHO DURING 1970-71 PARTICIPATED IN AN ENVIRONMENTAL INSERVICE WORKSHOP. THEY, PLUS A CONTROL GROUP OF 22 TEACHERS, WERE TESTED BEFORE AND AFTER THE WORKSHOP WITH TWO ENVIRONMENTAL AWARENESS SURVEYS. THESE SURVEYS DID NOT INDICATE A GREATER FINAL KNOWLEDGE OF ENVIRONMENT IN THE EXPERIMENTAL TEACHING GROUP. CHANGES IN VALUES OCCURRED, HOWEVER, WITH SIGNIFICANT SHIFTS IN THE EXPERIMENTAL TEACHING GROUP TOWARDS IDEALISM AND HUMANISM AND AWAY FROM BOTH A SCIENTIFIC AND ECONOMIC ORIENTATION TOWARDS LIFE. PART II, THE MAJOR PORTION OF THIS REPORT, CONTAINS SEVEN INDIVIDUAL PROJECT REPORTS DONE BY PSYCHOLOGY UNDERGRADUATE AND GRADUATE STUDENTS FOR PARTICIPATING TEACHERS WHO WISHED RESEARCH ASSISTANCE. THROUGH OBSERVATION AND AWARENESS ANALYSIS THEY EVALUATED THE EFFECTIVENESS OF THE ENVIRONMENTAL LEARNING PACKAGES WHICH THE TEACHERS HAD DEVELOPED AND THEN USED IN THEIR ELEMENTARY AND JUNIOR HIGH CLASSES. THE OVERALL TEACHER TRAINING AND CURRICULUM DEVELOPMENT PLAN OF THE NORTHWEST ENVIRONMENTAL EDUCATION CENTER (NEEC) IS OUTLINED IN SO 002 082. (AUTHOR/AWW)

INSTITUTION NAME: WASHINGTON UNIV., SEATTLE. BUREAU OF TESTING.

ACCESSION NUMBERS: ED058127 SO002229

PUBLICATION DATE: 70

TITLE: PLANNING FOR AN ECOLOGY-ACTION UNIT/COURSE.

PERSONAL AUTHOR: LEE, LEROY; AND OTHERS

INSTITUTION CODE: ZQU44500

DESCRIPTOR: ACTIVITY LEARNING; AFFECTIVE OBJECTIVES; *BIOLOGY; COMMUNITY ACTION; COMMUNITY RESOURCES; CURRICULUM GUIDES; *ECOLOGY; *ENVIRONMENTAL EDUCATION; INTERDISCIPLINARY APPROACH; SECONDARY GRADES; *SOCIAL STUDIES; *STUDENT CENTERED CURRICULUM; STUDENT PARTICIPATION; STUDENT PROJECTS; TEACHER DEVELOPED MATERIALS; VALUES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 27P.

ISSUE: RIEAPR72

THE PURPOSE OF THESE PLANS, DEVELOPED BY BIOLOGY TEACHERS, SOCIAL STUDIES TEACHERS, AND HIGH SCHOOL STUDENTS, ARE: 1) TO DEVELOP A SYSTEMATIC METHOD OF BECOMING INFORMED ON ISSUES NOT SOLELY BASED WITHIN TRADITIONAL DISCIPLINES; 2) TO PROVIDE STUDENTS WITH AN OPPORTUNITY TO HELP DETERMINE THE DIRECTION AND CONTENT OF THEIR STUDIES; 3) TO AID IN EXPANDING THE TRADITIONAL VIEW OF LEARNING AS A CLASSROOM ACTIVITY; AND, 4) TO REDEFINE TEACHING-LEARNING ROLES TO ALLOW INDIVIDUAL GOAL SETTING, SELF EVALUATION, AND USE OF COMMUNITY RESOURCES. AN INTRODUCTION SETS OUT THE GENERAL CONTEXT OF ECOLOGICAL STUDY, THE ASSUMPTIONS ON WHICH THE UNIT IS BASED, AND THE GENERAL PURPOSE OF THE COURSE. THE UNIT IS LAB AND PROBLEM CENTERED, AND IS BUILT AROUND AN ISSUE OF THE INDIVIDUAL STUDENT'S SELECTION. THE COURSE IS STRUCTURED INTO TWO SEPARATE PHASES, THE SECOND ONE OPTIONAL BUT HIGHLY DESIRABLE. POSSIBLE OBJECTIVES OF THE COURSE ARE LISTED, THE FRAMEWORK OF THE COURSE IS DISCUSSED, AND SEVERAL PAGES SHOW THE SUGGESTED ORGANIZATIONAL FRAMEWORKS IN CHART FORM. THEY INCLUDE: AN INTERDISCIPLINARY COURSE; A UNIT WITHIN BIOLOGY OR SOCIAL STUDIES; AN INTERDISCIPLINARY UNIT TAUGHT IN BOTH BIOLOGY AND SOCIAL STUDIES COURSES. SOME IDEAS ARE DISCUSSED FOR DIFFERENTIATING BETWEEN AN AREA OF ENVIRONMENTAL CONCERN AND SPECIFIC ENVRIONMENTAL PROBLEMS. (JLB)

INSTITUTION NAME: MADISON PUBLIC SCHOOLS, WIS.

ACCESSION NUMBERS: ED058126 SP002228

PUBLICATION DATE: 1 DEC 70

TITLE: THE DEVELOPMENT AND FIELD TESTING OF A PILOT PROGRAM IN ENVIRONMENTAL EDUCATION IN THE SEDRO WOOLLEY SCHOOL DISTRICT. PROGRESS REPORT.

PERSONAL AUTHOR: MILES, JOHN C.

INSTITUTION CODE: BBB05749

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: *CURRICULUM DEVELOPMENT; *ECOLOGY; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; INSERVICE TEACHER EDUCATION; *PILOT PROJECTS; SECONDARY GRADES; SOCIAL VALUES; STUDENT PARTICIPATION; *TEACHER SEMINARS

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 9P.

ISSUE: RIEAPR72

THIS REPORT COVERS THE FIRST FIVE MONTHS OF THE SEDRO WOLLEY PROJECT WHICH HAS BEEN DESIGNED BY REPRESENTATIVES FROM HUXLEY COLLEGE, THE SEDRO WOOLEY SCHOOL DISTRICT, AND THE NORTHWEST ENVIRONMENTAL EDUCATION CENTER AS AN EXPERIMENTAL MODEL. THE PROJECT PROPOSES TO INVESTIGATE THROUGH ACTION AT THE SCHOOL DISTRICT LEVEL THE NATURE AND CONTENT OF ENVIRONMENTAL EDUCATION AND TO DEVELOP A K-12 ENVIRONMENTAL EDUCATION PROGRAM THAT WILL BE USEFUL TO OTHER DISTRICTS IN WASHINGTON AND OTHER REGIONS. THE PROPOSED STEPS IN THE PROJECT INCLUDE: RETRAINING OF TEACHERS, INVOLVEMENT OF STUDENTS, DEVELOPMENT OF CURRICULUM AND IMPLEMENTATION OF THE PROGRAM. A NARRATIVE DISCUSSION OF THE FIRST STEP IS PRESENTED IN THIS REPORT. TO DATE THE PRIMARY EFFORT HAS BEEN TO ORIENT TEACHERS TO ENVIRONMENTAL ISSUES AND TO DETERMINE THOSE SKILLS WHICH WILL BE OF GREATEST USE TO THEM IN RESTRUCTURING THE CURRICULUM. THE TEACHERS' SEMINAR FOUND THAT AN EXTENSIVE RESTRUCTURING OF GRADE UNITS, ADMINISTRATIVE UNITS, DAILY AND ANNUAL SCHOOL SCHEDULES, DISCIPLINES, AND TEACHER-TRAINING PROGRAMS MAY BE NECESSARY TO RESPOND ADEQUATELY TO THE CHALLENGE OF THE ENVIRONMENTAL PROBLEMS OF TODAY. FUTURE ACTIVITIES AND SPECIFIC FINDINGS OF THE PROJECT ARE ALSO DISCUSSED. (AUTHOR/DJB)

GRANT NUMBER: OEG-0-70-5039

BUREAU NUMBER: BR-0-0848

INSTITUTION NAME: WESTERN WASHINGTON STATE COLL., BELLINGHAM. HUXLEY COLL. OF ENVIRONMENTAL STUDIES.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBERS: ED058117 SO002082

PUBLICATION DATE: 71

TITLE: HUMAN SURVIVAL AND EDUCATION REPORT: A POSITION PAPER BY THE NORTHWEST ENVIRONMENTAL EDUCATION CENTER FOR DISTRIBUTION TO THE 1971 SESSION OF THE WASHINGTON STATE LEGISLATURE.

INSTITUTION CODE: BBB05316

DESCRIPTOR: *COMMUNITY STUDY; CURRICULUM DEVELOPMENT; *ECOLOGY; EDUCATIONAL ENVIRONMENT; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; HUMANISM; INSERVICE TEACHER EDUCATION; *INTERDISCIPLINARY APPROACH; PROBLEM SOLVING; *REGIONAL PROGRAMS; SECONDARY GRADES; STATE PROGRAMS; VALUES

IDENTIFIER: *VALUES EDUCATION; WASHINGTON

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 9P.

ISSUE: RIEAPR72

THIS POSITION PAPER INDICATES THAT, HUMAN SURVIVAL DEPENDS UPON A MAJOR CHANGE IN HUMANISTIC VALUES OR THE WAY WE VIEW OUR RELATIONSHIP TO THE WORLD. EDUCATION MUST GO THROUGH REFORM FROM WITHIN THAT INCLUDES THE ADOPTION OF A K-12, TRANSDISCIPLINARY, PROBLEM-SOLVING CURRICULUM, AND MUST, ALSO, OFFER STUDENTS ENVIRONMENTALLY SOUND ALTERNATIVES TO THE UNCERTAIN FUTURE THEY FACE, IN AN EDUCATIONAL ENVIRONMENT THAT IS HUMANIZED. WITH THE FOCUS OF ENVIRONMENTAL EDUCATION ON HUMAN BEHAVIOR AND THE INTERACTION OF IT WITH THE TOTAL ENVIRONMENT, THE LEARNING SETTING WILL CHANGE TO INCLUDE THE COMMUNITY-AT-LARGE. THE PLAN DEVELOPED BY THE NORTHWEST ENVIRONMENTAL EDUCATION CENTER (NEEC), WITH STATE FUNDING, PROVIDES FOR THE IMPLEMENTATION OF ENVIRONMENTAL EDUCATION PROGRAMS ON A NUMBER OF LEVELS: COMMUNITY OR DISTRICT LEVEL, THE COUNTY LEVEL, AND THE REGIONAL OR INTER-COUNTY LEVEL. TEACHER TRAINING WITHIN EACH OF 38 DISTRICTS WILL BE GIVEN THE HIGHEST PRIORITY FOR THE PURPOSE OF ESTABLISHING A HIERARCHY OF ENVIRONMENTAL SPECIALISTS TO FUNCTION IN EACH DISTRICT. INTENSIVE TRAINING OF A CADRE OF TEACHERS FROM EACH DISTRICT WILL PERMIT INSERVICE TRAINING. THE PILOT PROJECT AT SEDRO WOOLLEY SCHOOL DISTRICT IS CITED HERE AT LENGTH AND IN SO 002 249. (AUTHOR/SBE)

INSTITUTION NAME: NORTHWEST ENVIRONMENTAL EDUCATION CENTER, BELLINGHAM, WASH.

ACCESSION NUMBERS: ED058110 SO001846

PUBLICATION DATE: 70

TITLE: ENQUIRY WORK IN AN URBAN SETTING. INFORMATION BOOKLET.

INSTITUTION CODE: BBB04302

DESCRIPTOR: *COMMUNITY STUDY; COMPARATIVE EDUCATION; DISCUSSION (TEACHING TECHNIQUE); *ENVIRONMENTAL EDUCATION; *FIELD INSTRUCTION; GEOGRAPHY INSTRUCTION; HISTORY INSTRUCTION; *HUMAN GEOGRAPHY; INQUIRY TRAINING; INTERDISCIPLINARY APPROACH; LAND USE; LOW ABILITY STUDENTS; MAPS; SECONDARY GRADES; SOCIAL STUDIES UNITS; STUDENT RESEARCH; URBAN EDUCATION; URBANIZATION; *URBAN STUDIES

IDENTIFIER: ENGLAND

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 25P.

ISSUE: RIEAPR72

THE PURPOSE OF THIS INFORMATION BOOKLET IS TO LOOK CLOSELY AT THE ORGANIZATION OF THE EDUCATIONAL EXPERIENCES OF TWO FOURTH-YEAR FORMS IN TWO ENGLISH URBAN SECONDARY SCHOOLS WHO STUDIED SOME FEATURES OF THEIR IMMEDIATE ENVIRONMENT. THE FIRST 6 WEEK FIELD PROJECT, HOUSES AND FLATS: A PLANNED ENQUIRY INTO THE LOCAL AREA, INVOLVED 34 LOW ABILITY BOYS AND GIRLS IN A MODERN SCHOOL IN A RESIDENTIAL AREA. HISTORICAL MAPS WERE CONSULTED AND INFORMATION EXTRACTED THROUGH SKETCH MAPS CONCENTRATING ATTENTION ON THE LAND USE CHANGES FROM A RURAL TO A HIGH-DENSITY URBAN RESIDENTIAL AREA, AND LEADING INTO AN ENQUIRY ABOUT THE CULTURAL, ECONOMIC, SOCIAL, AND MORAL CONSEQUENCES FOR THE PEOPLE LIVING THERE. AN INTERDISCIPLINARY APPROACH RESULTED: GEOGRAPHY, HISTORY, ENGLISH LITERATURE, AESTHETICS, AND SOCIAL PROBLEMS. THE SECOND 6 WEEK STUDENT PROJECT, DERELICT LAND: SEIZING ON THE NEGLECTED AREAS, INVOLVED 40 BOYS AND GIRLS IN A FIFTY YEAR-OLD SCHOOL AMID THE TANGLE OF INDUSTRIAL COMMUNITIES THAT HAVE MERGED TO MAKE UP THE BLACK COUNTRY. THE DERELICT SITE IS A SLAG AND ASH COVERED COLLIERY, BLAST FURNACE, AND WORKER COTTAGE AREA. TWO GROUPS WORKED ON CAREFULLY TEACHER GUIDED SURVEYS OF THE AREA; FOUR OTHER GROUPS CONCENTRATED UPON HISTORICAL AND GEOGRAPHICAL FEATURES OF LAND USE, INDUSTRIAL DEVELOPMENT, AND POPULATION CHANGES; AND, TWO OTHERS EMPHASIZED SOCIAL IMPLICATION OF PLANNED REDEVELOPMENT. QUESTIONNAIRES, MAPS, GROUP CLASS DISCUSSION, DRAWING, SMALL GROUP FIELD WORK AND FOLLOWUP WORK WERE METHODS USED IN BOTH PROJECTS. (AUTHOR/SBE)

AVAILABILITY: THE FINANCIAL OFFICER, SCHOOLS COUNCIL, 160, GREAT PORTLAND STREET, LONDON, WIN 6LL ($.10)

INSTITUTION NAME: SCHOOLS COUNCIL, LONDON (ENGLAND).

ACCESSION NUMBERS: ED058049 SE013118

PUBLICATION DATE: 71

TITLE: ENVIRONMENTAL EDUCATION, OBJECTIVES AND FIELD ACTIVITIES, FOURTH EDITION.

PERSONAL AUTHOR: MAJOR, JAMES M.; CISSELL, CHARLES A.

INSTITUTION CODE: BBB05731

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: CURRICULUM ENRICHMENT; *ENVIRONMENTAL EDUCATION; *FIELD INSTRUCTION; INTERDISCIPLINARY APPROACH; *LEARNING ACTIVITIES; *NATURAL RESOURCES; OBJECTIVES; OUTDOOR EDUCATION; *TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$13.16

DESCRIPTIVE NOTE: 379P.

ISSUE: RIEAPR72

CONTAINED IN THIS TEACHER'S GUIDE ARE EDUCATIONAL OBJECTIVES AND NUMEROUS FIELD ACTIVITY SUGGESTIONS FOR ENVIRONMENTAL EDUCATION. PART ONE DEALS WITH THE TOTAL ENVIRONMENTAL EDUCATION PROGRAM, PRIMARILY DEVELOPED FOR FIFTH GRADE STUDENTS, BUT ADAPTABLE TO ANY LEVEL, AGE SIX TO ADULT. SAMPLE OBJECTIVES OF AN ENVIRONMENTAL EDUCATION PROGRAM, GENERAL EDUCATIONAL OBJECTIVES, SCHOOL OBJECTIVES, AND SUBJECT AREAS OF STUDY OBJECTIVES ARE OUTLINED IN ADDITION TO A SUGGESTED INSTRUCTIONAL APPROACH AND PHILOSOPHY OF ENVIRONMENTAL EDUCATION. PART TWO DESCRIBES 125 FIELD ACTIVITIES DEVELOPED FOR ELEMENTARY AND HIGH SCHOOL STUDENTS USING THE YOUTH ACTIVITY STATION, LAND BETWEEN THE LAKES, KENTUCKY. THESE ARE IN THE AREAS OF LIFE SCIENCE, EARTH SCIENCE, ART, ASTRONOMY, WEATHER, CONSERVATION, ECOLOGY, SOCIAL STUDIES, AND LANGUAGE ARTS. A BIBLIOGRAPHY, SAMPLE PROGRAM SCHEDULE, CHECKLISTS, AND SECTION ON WRITING BEHAVIORAL OBJECTIVES ARE ALSO INCLUDED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BL)

INSTITUTION NAME: PADUCAH PUBLIC SCHOOLS, KY.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED058028 SE012587

PUBLICATION DATE: 71

TITLE: A WINTER WALK AT HO-NEE-UM.

PERSONAL AUTHOR: IRWIN, HARRIET; AND OTHERS

INSTITUTION CODE: ZOU44500

DESCRIPTOR: AUDIOVISUAL AIDS; ECOLOGY; FILMSTRIPS; *INSTRUCTIONAL MATERIALS; INSTRUCTIONAL TRIPS; NATURAL RESOURCES; *OUTDOOR EDUCATION; *PRIMARY GRADES; *SENSORY EXPERIENCE; *TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 20P.

ISSUE: RIEAPR72

APPRECIATION AND CONCERN FOR THE PRESERVATION OF OUR NATURAL RESOURCES BY ALL CITIZENS IS THE PRIMARY CONCERN OF THIS TEACHER'S GUIDE FOR USE IN THE LOWER PRIMARY GRADES. IT EMPLOYS THE USE OF A FILMSTRIP IN CONJUNCTION WITH A LOCAL NATURE TRAIL, TO GUIDE STUDENTS IN DEVELOPING AWARENESS - BY LOOKING CLOSELY, LISTENING, TOUCHING, AND SMELLING. THE MAJOR THEME OF THE WINTER TOUR IS USE OF THE SENSES IN OBSERVING PATTERNS, COLORS, TEXTURES, AND SOUNDS IN THE OUT-OF-DOORS. THE FILMSTRIP IS EXPLAINED IN ITS ENTIRETY, ILLUSTRATING EACH FRAME AND ITS ACCOMPANYING SCRIPT. QUESTIONS IN THE SCRIPT ARE DESIGNED TO ENCOURAGE CLASS DISCUSSION DURING THE VIEWING TIME. BRACKETED PARAGRAPHS PROVIDE THE TEACHER WITH ADDITIONAL INFORMATION. ALSO DEPICTED ARE CHARTS OF ANIMAL TRACKS OFTEN FOUND IN THE WOODS OR ALONG THE TRAIL. THE FILMSTRIP IS NOT INCLUDED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BL)

INSTITUTION NAME: MADISON PUBLIC SCHOOLS, WIS.

ACCESSION NUMBERS: ED057921 PS005327

PROGRAM AREA: 24

PUBLICATION DATE: OCT 71

TITLE: NUMBER AND CONCEPT DEVELOPMENT: AN ABSTRACT BIBLIOGRAPHY.

PERSONAL AUTHOR: BERNBAUM, MARCIA, COMP.

INSTITUTION CODE: BBB00324

SPONSORING AGENCY CODE: BBB03927; BBB04478

DESCRIPTOR: *ABSTRACTS; *ANNOTATED BIBLIOGRAPHIES; *CONCEPT FORMATION; CONSERVATION (CONCEPT); ELEMENTARY SCHOOL MATHEMATICS; INSTRUCTION; INSTRUCTIONAL MATERIALS; KINDERGARTEN CHILDREN; *MATHEMATICAL CONCEPTS; NUMBER CONCEPTS; PERIODICALS; PRESCHOOL CHILDREN; *PRESCHOOL EDUCATION; RESEARCH; TEACHING TECHNIQUES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 20P.

ISSUE: RIEAPR72

THIS BIBLIOGRAPHY HAS BEEN COMPILED TO ALERT EDUCATORS TO DOCUMENTS ABOUT CONCEPT DEVELOPMENT IN YOUNG CHILDREN, PARTICULARLY THE DEVELOPMENT OF NUMBER CONCEPTS FOUND IN THE ERIC MICROFICHE COLLECTION AND IN JOURNAL LITERATURE. ABSTRACTS OF SELECTED DOCUMENTS WERE TAKEN FROM "RESEARCH IN EDUCATION (RIE)" AND JOURNAL ARTICLE CITATIONS FROM THE "CURRENT INDEX TO JOURNALS IN EDUCATION (CIJE)". INCLUDED ARE PUBLISHED AND UNPUBLISHED STUDIES FOCUSING ON CHILDREN'S ACQUISITION OF CONCEPT OF NUMBER, NUMBER CONSERVATION RESEARCH, SUGGESTIONS FOR PRACTITIONERS RELATING TO NUMBER DEVELOPMENT, AND CONCEPT RESEARCH. DESCRIPTORS (SUBJECT TERMS USED TO CHARACTERIZE THE ENTRIES) APPEAR AFTER EACH TITLE AND WILL HELP THE USERS OF THIS BIBLIOGRAPHY TO IDENTIFY TOPICS COVERED IN THE SELECTIONS. (AUTHOR/WY)

CONTRACT NUMBER: OEC-0-70-2623(519)

BUREAU NUMBER: BR-0-0288

INSTITUTION NAME: ERIC CLEARINGHOUSE ON EARLY CHILDHOOD EDUCATION, URBANA, ILL.

SPONSORING AGENCY NAME: NATIONAL CENTER FOR EDUCATIONAL COMMUNICATION (DHEW/OE), WASHINGTON, D.C. DIVISION OF INFORMATION RESOURCES.; OFFICE OF CHILD DEVELOPMENT (DHEW), WASHINGTON, D.C.

ACCESSION NUMBERS: ED057407 CG006963

PROGRAM AREA: 24

PUBLICATION DATE: JAN 71

TITLE: INVESTIGATION OF THE REACTION OF HIGH SCHOOL STUDENTS TO A CURRICULUM ORIENTED TOWARDS OCEANOLOGY. FINAL REPORT.

PERSONAL AUTHOR: DAY, ROBERT S.

INSTITUTION CODE: BBB01800

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: *ATTITUDES; CAREER OPPORTUNITIES; CURRICULUM DEVELOPMENT; *EDUCATIONAL CHANGE; EDUCATIONAL RESEARCH; ENVIRONMENTAL EDUCATION; *EXPERIMENTAL CURRICULUM; HIGH SCHOOL STUDENTS; *OCEANOLOGY; QUESTIONNAIRES; *RELEVANCE (EDUCATION)

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 90P.

ISSUE: RIEAPR72

THE PURPOSE OF THE PROJECT WAS TO LEARN WHETHER ANY MEASURABLE CHANGES IN STUDENT ATTITUDES CAN BE DETECTED WHEN THE SCHOOL CURRICULUM IS MADE MORE RELEVANT TO THE SCHOOL'S PHYSICAL ENVIRONMENT. THE SCOPE OF THE STUDY WAS TO ORIENT THE CURRICULUM IN ALL ACADEMIC DEPARTMENTS TOWARDS OCEANOLOGY AND THEN DETERMINE BY SUBJECTIVE OPINIONS OF THE FACULTY AND BY A PRE AND POST INFORMATIONAL AND ATTITUDINAL QUESTIONNAIRE WHETHER THERE WAS ANY OVERALL CHANGE IN THE SCHOOL. THE RESULTS WERE THAT (1) STUDENT INTEREST IN AN OCEANOLOGY SECTION OF THE LIBRARY WAS ESPECIALLY HIGH; (2) THE STUDENT QUESTIONNAIRE INDICATED NO SIGNIFICANT CHANGES IN ATTITUDES; AND (3) THE ACADEMIC DEPARTMENT HEADS WERE DIVIDED AS TO WHETHER THEY WERE WILLING TO COOPERATE WITH THE PROJECT BY ALTERING THEIR PRESENT CURRICULUM. THE PROJECT DID CREATE AN INTEREST IN THE HURRICANE ISLAND OUTWARD BOUND SCHOOL. IT IS RECOMMENDED THAT THE CONCEPT OF ORIENTING A SCHOOL CURRICULUM TO OCEANOLOGY BE VALIDATED IN ANOTHER SECONDARY SCHOOL LOCATED NEAR THE OCEAN. (AUTHOR)

GRANT NUMBER: OEG-1-9-090050-0113 (010)

BUREAU NUMBER: BR-9-A-050

INSTITUTION NAME: PORTSMOUTH SCHOOL DEPT., R.I.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBERS: ED057247 VT014410

PUBLICATION DATE: JUL 71

TITLE: ANALYSES OF NOISE IN SELECTED AGRICULTURAL MECHANICS FACILITIES.

PERSONAL AUTHOR: SHELL, LON R.

SPONSORING AGENCY CODE: BBB04772

DESCRIPTOR: AGRICULTURAL ENGINEERING; AURALLY HANDICAPPED; DOCTORAL THESES; FACILITY REQUIREMENTS; *HEARING CONSERVATION; INSTRUCTIONAL PROGRAMS; QUESTIONNAIRES; *SCHOOL SHOPS; *STUDENT OPINION; *VERBAL COMMUNICATION; *VOCATIONAL AGRICULTURE

IDENTIFIER: NOISE LEVELS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 123P.; ED.D. DISSERTATION, OKLAHOMA STATE UNIVERSITY

ISSUE: RIEMAR72

THE PURPOSE OF THIS STUDY WAS TO ANALYZE THE DIFFERENT NOISE LEVELS FOUND IN FOUR AGRICULTURAL MECHANICS FACILITIES SELECTED AS BEING REPRESENTATIVE OF THE CONCRETE AND BRICK VENEER TYPE AND THE PREDOMINATELY STEEL TYPE. THE TYPE OF INSTRUCTIONAL PROGRAMS CONSIDERED WERE THE LABORATORY SKILL ORIENTED AND THE PROJECT CONSTRUCTION ORIENTED. A QUESTIONNAIRE WAS ADMINISTERED TO STUDENTS TO DETERMINE: (1) WHAT NOISES ANNOY THEM MOST, (2) WHICH OF EIGHT CHARACTERISTICS CAUSES IT TO BE ANNOYING, (3) WHAT ACTIVITIES THEY ARE ENGAGED IN WHEN ANNOYED MOST, AND (4) STUDENTS' PERCEPTION OF THE AURAL ENVIRONMENT. SPEECH INTERFERENCE LEVELS WERE FOUND BY MEASURING THE SOUND LEVELS WITH A BRUEL AND KJAER IMPULSE PRECISION SOUND LEVEL METER FITTED WITH AN OCTAVE FILTER SET. THE MOST ANNOYING SOUNDS TO STUDENTS WERE FROM: (1) PEDESTAL AND PORTABLE DISC GRINDERS, AND (2) CHIPPING AND HAMMERING SLAG. IT WAS CONCLUDED THAT NOISE LEVELS FOUND IN MOST AGRICULTURAL MECHANICS FACILITIES ARE NOT UNCOMMON TO WHAT WOULD BE EXPECTED BUT THAT AUDIO-COMMUNICATION IS INHIBITED BEYOND A TOLERABLE DEGREE. (AUTHOR/GEB)

AVAILABILITY: UNIVERSITY MICROFILMS, INC., P.O. BOX 1764, ANN ARBOR, MICHIGAN 48106 (MF $4.00; XEROGRAPHY $10.00)

SPONSORING AGENCY NAME: OKLAHOMA STATE DEPT. OF VOCATIONAL AND TECHNICAL EDUCATION, STILLWATER.

ACCESSION NUMBERS: ED057231 VT014332

TITLE: ANSWERS TO QUESTIONS ON VOCATIONAL EDUCATION: CURRICULUM PLANNING--METALWORKING, ENVIRONMENTAL CONTROL, PUBLIC SERVICES, CONSTRUCTION, FOOD PROCESSING AND DISTRIBUTION, HEALTH, AND TRANSPORTATION.

PERSONAL AUTHOR: MCCRACKEN, J. DAVID; MAGISOS, JOEL H.

INSTITUTION CODE: RUF67355

DESCRIPTOR: BUILDING TRADES; COMMUNITY AGENCIES (PUBLIC); *CURRICULUM DEVELOPMENT; ENVIRONMENTAL EDUCATION; FOOD PROCESSING OCCUPATIONS; HEALTH OCCUPATIONS; JOB ANALYSIS; JOB SKILLS; *OCCUPATIONS; *SCHOOL INDUSTRY RELATIONSHIP; TRANSPORTATION; *VOCATIONAL EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 8P.

ISSUE: RIEMAR72

THIS SHORT BOOKLET CONTAINS QUESTIONS AND ANSWERS CONCERNING ASPECTS OF VOCATIONAL-TECHNICAL EDUCATION, INCLUDING (1) INFORMATION NEEDED WHEN CURRICULUM FOR A NEW OCCUPATION IS INITIATED, (2) IMPORTANCE OF COOPERATING WITH BUSINESS AND INDUSTRY IN PROGRAM DEVELOPMENT, (3) MAKING EDUCATION RESPONSIVE TO EMERGING JOB REQUIREMENTS, AND (4) EXAMPLES OF NEW OCCUPATIONS. THE PUBLICATIONS FROM WHICH THESE ANSWERS WERE DRAWN REVIEW AND SYNTHESIZE RESEARCH IN THE FIELD. INFORMATION ON THEM AND HOW TO ORDER THEM IS INCLUDED. RELATED DOCUMENTS ARE AVAILABLE AS VT 014 333 AND VT 014 334 IN THIS ISSUE. (SB)

AVAILABILITY: CENTER FOR VOCATIONAL AND TECHNICAL EDUCATION, 1900 KENNY ROAD, COLUMBUS, OHIO 43210 (NO CHARGE)

INSTITUTION NAME: OHIO STATE UNIV., COLUMBUS. CENTER FOR VOCATIONAL AND TECHNICAL EDUCATION.

ACCESSION NUMBERS: ED056930 SO001887

PUBLICATION DATE: NOV 70

TITLE: MAN AND ENVIRONMENT. REVISED CURRICULUM.

INSTITUTION CODE: HWP49125

DESCRIPTOR: COLLEGE FRESHMEN; COMMUNITY COLLEGES; *CONSERVATION EDUCATION; CURRICULUM GUIDES; *ECOLOGY; *ENVIRONMENTAL EDUCATION; HIGHER EDUCATION; JUNIOR COLLEGES; NATURAL RESOURCES; OPEN CIRCUIT TELEVISION; OVERPOPULATION; POLLUTION; SOCIAL FACTORS; SOCIAL RESPONSIBILITY; SOCIAL STUDIES; *TEACHER DEVELOPED MATERIALS; UNITS OF STUDY (SUBJECT FIELDS); VALUES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 103P.

ISSUE: RIEMAR72

AN ADISCIPLINARY, GENERAL EDUCATION COURSE FOR STUDENTS OF COMMUNITY COLLEGES IS OUTLINED IN THIS DOCUMENT. THE ONE-YEAR COURSE WAS DEVELOPED DURING TWO WORKSHOPS, ATTENDED BY REPRESENTATIVES FROM COMMUNITY COLLEGES THROUGHOUT THE COUNTRY. THE COURSE IS STRUCTURED IN MODULES TO ALLOW FOR FLEXIBILITY IN THE SEQUENCING OF COURSE CONTENT, AND TO FACILITATE INTERCHANGE OF INSTRUCTIONAL PLANS AND MATERIALS. THERE ARE 32 MODULES IN ALL. EACH MODULE OUTLINE PROVIDES GENERAL AND SPECIFIC OBJECTIVES, AND SUBUNIT TOPICS. IN ADDITION TO THE MORE TRADITIONAL ENVIRONMENTAL TOPICS, SUBJECTS COVERED BY THESE MODULES INCLUDE: 1) THE NATURE OF MAN; 2) VALUE SYSTEMS--ECOLOGICAL PRIORITIES; 3) BELIEF SYSTEMS; 4) THE MYTHS OF TECHNOLOGY; 5) IMPACT OF POLITICAL SYSTEMS; AND 6) IMPACT OF ECONOMIC SYSTEMS. A STUDY GUIDE TO ACCOMPANY THE COURSE WILL BE AVAILABLE IN MARCH 1972. MIAMI DADE IS PLANNING TO OFFER THE COURSE FOR COLLEGE CREDIT OVER OPEN CIRCUIT TELEVISION. (A RELATED DOCUMENT IS SO 001 888). (AUTHOR/JLB)

INSTITUTION NAME: MIAMI-DADE JUNIOR COLL., FLA.

AVAILABILITY: SOCIAL SCIENCE EDUCATION CONSORTIUM, INC., 855 BROADWAY, BOULDER, COLORADO 80302 (PAPERBACK, $6.95; HARD COPY, $8.95)

INSTITUTION NAME: ERIC CLEARINGHOUSE FOR SOCIAL STUDIES/SOCIAL SCIENCE EDUCATION, BOULDER, COLO.; SOCIAL SCIENCE EDUCATION CONSORTIUM, INC., BOULDER, COLO.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

ACCESSION NUMBERS: ED056922 SO001609

PUBLICATION DATE: 71

TITLE: THE ENVIRONMENTAL PROBLEM. SELECTIONS FROM HEARINGS ON THE ENVIRONMENTAL EDUCATION ACT OF 1970.

PERSONAL AUTHOR: MORRISSETT, IRVING, ED.; WILEY, KAREN B., ED.

INSTITUTION CODE: BBB03575; BBB04086

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: *ECOLOGY; *EDUCATIONAL LEGISLATION; ELEMENTARY GRADES; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *FEDERAL LEGISLATION; GOVERNMENT PUBLICATIONS; GOVERNMENT ROLE; HIGHER EDUCATION; PUBLIC POLICY; RESOURCE MATERIALS

IDENTIFIER: *ENVIRONMENTAL EDUCATION ACT OF 1970; SELECT SUBCOMMITTEE ON EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 239P.

ISSUE: RIEMAR72

DURING MARCH, APRIL, AND MAY OF 1970 THE SELECT SUBCOMMITTEE ON EDUCATION OF THE UNITED STATES HOUSE OF REPRESENTATIVES HELD HEARINGS IN WASHINGTON, D.C., NEW YORK CITY, AND SAN FRANCISCO AND LOS ANGELES, CALIFORNIA, ON A "BILL TO AUTHORIZE THE UNITED STATES COMMISSIONER OF EDUCATION TO ESTABLISH EDUCATIONAL PROGRAMS TO ENCOURAGE UNDERSTANDING OF POLICIES AND SUPPORT OF ACTIVITIES DESIGNED TO ENHANCE ENVIRONMENTAL QUALITY AND MAINTAIN ECOLOGICAL BALANCE." THE RECORD OF THESE HEARINGS CONTAINS TESTIMONY FROM A WIDE CROSS-SECTION OF THE POPULATION: ECOLOGISTS, SUCH AS LAMONT COLE; SOCIAL SCIENTISTS, SUCH AS MARGARET MEAD AND KENNETH BOULDING; STUDENT LEADERS OF THE ENVIRONMENTAL TEACH-IN, SUCH AS KAREN BUXBAUM; AN ARTIST, ROBERT MOTHERWELL; A THEOLOGIAN, JOSEPHY SITTLER; EDUCATORS, SUCH AS EDWARD WEIDNER; GOVERNMENT OFFICIALS, SUCH AS JAMES E. ALLEN; AND, PHILOSOPHERS, CONSERVATIONISTS, BUSINESSMEN, ARCHITECTS, JOURNALISTS, TEACHERS. THE TESTIMONY RANGES FROM VERY HIGH LEVEL, ABSTRACT, GLOBAL THINKING TO DETAILED DESCRIPTIONS OF SPECIFIC ACTION PROGRAMS. THE RECORD HAS BEEN CAREFULLY EDITED AND CONDENSED IN ORDER TO PRESENT THE ESSENTIAL THEMES, AND A WIDE VARIETY OF VIEWPOINTS. THERE ARE MANY USES FOR THIS BOOK: CURRICULUM PLANNERS AND TEACHERS WILL FIND MANY OF THE PROPOSALS HELPFUL IN GUIDING THEIR OWN THINKING; BOTH HIGH SCHOOL AND COLLEGE CLASSES IN EDUCATION AND GOVERNMENT WILL FIND THIS AN ILLUMINATING SOURCE OF INFORMATION ON HOW NATIONAL PRIORITIES ARE FORMULATED; AND, STUDY GROUPS FOCUSING ON ENVIRONMENTAL PROBLEMS WILL FIND IT A STIMULATING CASE STUDY. (AUTHOR)

REPORT NUMBER: REFS-3; SSEC-PUB-140

ACCESSION NUMBERS: ED056914 SE012791

PUBLICATION DATE: 71

TITLE: FIELD STUDY MANUAL TO FRESHWATER AND ESTUARINE HABITATS.

INSTITUTION CODE: IEE29025

DESCRIPTOR: BIOLOGY; DATA COLLECTION; DATA SHEETS; *ECOLOGY; *FIELD STUDIES; *INSTRUCTIONAL MATERIALS; LABORATORY MANUALS; MANUALS; *SECONDARY SCHOOL SCIENCE; WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 29P.

ISSUE: RIEMAR72

THIS FIELD STUDIES MANUAL, DEVELOPED BY BIOLOGY STUDENTS IN THE 1971 GEORGIA GOVERNOR'S HONORS PROGRAM, WAS DESIGNED FOR COLLECTION OF DATA PERTINENT TO FRESHWATER AND ESTUARINE HABITATS. IN ADDITION TO THE VARIOUS METHODS OF SAMPLING THE ECOSYSTEM AND FOR QUANTIFICATION OF THE DATA, INSTRUCTIONS FOR DIVIDING THE FIELD STUDY INTO THREE LOGICAL PHASES: THE PRE-TRIP, ON-SITE, AND POST-TRIP AND INCLUDED. THREE APPENDICES ARE ALSO INCLUDED: (1) CENTIGRADE-FAHRENHEIT SCALES COMPARISON, (2) GUIDELINES FOR EVALUATING A RESEARCH ARTICLE, AND (3) FINAGLES LAWS. (CP)

INSTITUTION NAME: GEORGIA STATE DEPT. OF EDUCATION, ATLANTA.

ACCESSION NUMBERS: ED056911 SE012778

PUBLICATION DATE: DEC 71

TITLE: A SELECTED BIBLIOGRAPHY ON THE RELEVANCE OF ENVIRONMENTAL EDUCATION TO SECONDARY SCHOOL CURRICULA.

PERSONAL AUTHOR: CUNNINGHAM, MICHAEL C., COMP.; CUNNINGHAM, CHERYL BOND, COMP.

INSTITUTION CODE: BBB05372

DESCRIPTOR: *BIBLIOGRAPHIC CITATIONS; CURRICULUM DEVELOPMENT; *ENVIRONMENT; ENVIRONMENTAL EDUCATION; INTERDISCIPLINARY APPROACH; *REFERENCE MATERIALS; RESOURCE GUIDES; *SECONDARY GRADES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 51P.

ISSUE: RIEMAR72

THE INTENT OF THIS BIBLIOGRAPHY IS TO PROVIDE RESOURCES FOR THE SECONDARY SCHOOL TEACHER CONCERNING (1) SUBSTANTIVE INFORMATION ABOUT THE ENVIRONMENT AND (2) MEANS AND METHODS OF COMMUNICATING THAT INFORMATION IN THE CLASSROOM. IT DEALS PRIMARILY WITH THE MAN-MADE ENVIRONMENT RATHER THAN WITH ENVIRONMENTAL RESOURCES AND HAS AN URBAN BIAS - NOT ONE OF CONSERVATION. THE BIBLIOGRAPHY IS ORGANIZED INTO SIX PARTS: BIBLIOGRAPHIES, AGENCIES AND ORGANIZATIONS, JOURNALS, ENVIRONMENT, ENVIRONMENTAL EDUCATION, AND MATERIALS. PART I, BIBLIOGRAPHIES, INCLUDES RELATED COLLECTIONS IN SPECIFIC AREAS AS FILMS, CONSERVATION, AND SCIENCE. PART II, AGENCIES AND ORGANIZATIONS, LISTS NAMES AND ADDRESSES OF GROUPS PROVIDING EXTENSIVE MATERIALS ABOUT THE ENVIRONMENT AND ENVIRONMENTAL EDUCATION. PART III, JOURNALS, ENUMERATES PUBLICATIONS WITH A MAJOR EMPHASIS ON THE ENVIRONMENT. PART IV, ENVIRONMENT, IS SUBDIVIDED INTO GENERAL, URBAN ENVIRONMENT, POPULATION, AND ENVIRONMENTAL RESOURCES - FOOD AND PESTICIDES, AIR, WATER, NOISE, AND ENERGY. PART V, ENVIRONMENTAL EDUCATION, SEPARATES GENERAL, ENVIRONMENTAL QUALITY AND AESTHETICS, PERCEPTION, CURRICULA AND PROGRAMS, AND TECHNIQUES. PART VI, MATERIALS, CONTAINS ENTRIES AIMED TOWARD SECONDARY SCHOOL STUDENTS AND INCLUDES LITERATURE, FILMS AND FILMSTRIPS, GAMES, AND POSTERS. (BL)

INSTITUTION NAME: VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG.

ACCESSION NUMBERS: ED056908 SE012760

PUBLICATION DATE: 71

TITLE: NOISE POLLUTION, TEACHERS' EDITION.

PERSONAL AUTHOR: O'DONNELL, PATRICK A.; LAVARONI, CHARLES W.

DESCRIPTOR: *ACOUSTICS; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; INVESTIGATIONS; *JUNIOR HIGH SCHOOL STUDENTS; LEARNING ACTIVITIES; POLLUTION; SECONDARY SCHOOL SCIENCE; STUDENT RESEARCH; *TEACHING GUIDES

IDENTIFIER: NOISE POLLUTION

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 94P.

ISSUE: RIEMAR72

ONE OF THREE IN A SERIES ABOUT POLLUTION, THIS TEACHER'S GUIDE FOR A UNIT ON NOISE POLLUTION IS DESIGNED FOR USE IN JUNIOR HIGH SCHOOL GRADES. IT OFFERS SUGGESTIONS FOR EXTENDING THE INFORMATION AND ACTIVITIES CONTAINED IN THE TEXTUAL MATERIAL FOR STUDENTS. CHAPTER 1 DISCUSSES THE PROBLEM OF NOISE POLLUTION AND INVOLVES STUDENTS IN PROCESSES OF OBSERVING, GATHERING DATA, ANALYZING, AND HYPOTHESIZING. CHAPTER 2 GIVES UP-TO-DATE INFORMATION PERTAINING TO THE PROBLEMS AND CONSIDERS HEARING, DESCRIBING SOUND, SOURCES OF NOISE, INDUSTRIAL AND RESIDENTIAL NOISE, PHYSICAL EFFECTS OF NOISE, AND SOLVING NOISE PROBLEMS. CHAPTER 3 CONTAINS 23 STUDENT INVESTIGATIONS - EXPERIMENTS, DEMONSTRATIONS, PROJECTS - RELATED TO SOUND AND HEARING AND PROVIDES OPPORTUNITIES TO CONSIDER SOUNDS PEOPLE TEND TO TAKE FOR GRANTED AS POSSIBLE POLLUTANTS. UTILIZING A QUESTION FORMAT, THE LAST CHAPTER OUTLINES A SERIES OF DISCUSSIONS, ACTIVITIES, AND PROJECTS CONCERNING NOISE POLLUTION SUITED TO INDIVIDUAL, SMALL GROUP, AND LARGE GROUP WORK. NUMEROUS ILLUSTRATIONS SUPPLEMENT THE TEXT. RELATED DOCUMENTS ARE SE 012 758 AND SE 012 759. (BL)

AVAILABILITY: ADDISON-WESLEY PUBLISHING COMPANY, INC.

ACCESSION NUMBERS: ED056907 SE012759

PUBLICATION DATE: 71

TITLE: WATER POLLUTION, TEACHERS' EDITION.

PERSONAL AUTHOR: LAVARONI, CHARLES W.; AND OTHERS

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; INVESTIGATIONS; *JUNIOR HIGH SCHOOL STUDENTS; LEARNING ACTIVITIES; POLLUTION; SECONDARY SCHOOL SCIENCE; STUDENT RESEARCH; *TEACHING GUIDES; *WATER POLLUTION CONTROL

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 94P.

ISSUE: RIEMAR72

ONE OF THREE IN A SERIES ABOUT POLLUTION, THIS TEACHER'S GUIDE FOR A UNIT ON WATER POLLUTION IS DESIGNED FOR USE IN JUNIOR HIGH SCHOOL GRADES. IT OFFERS SUGGESTIONS FOR EXTENDING THE INFORMATION AND ACTIVITIES CONTAINED IN THE TEXTUAL MATERIAL FOR STUDENTS. CHAPTER 1 DISCUSSES THE PROBLEM OF WATER POLLUTION AND INVOLVES STUDENTS IN PROCESSES OF OBSERVING, GATHERING DATA, ANALYZING, AND HYPOTHESIZING. CHAPTER 2 GIVES UP-TO-DATE INFORMATION PERTAINING TO THE PROBLEMS AND CONSIDERS WATER SHORTAGE, WATER USERS, SURFACE AND GROUND WATER POLLUTION, SOURCES OF WATER POLLUTION, POLLUTION DISASTERS, FINANCIAL EFFECTS OF WATER POLLUTION, WATER TREATMENT FACILITIES, GOVERNMENTAL ACTION, AND PLANNING AND ZONING. CHAPTER 3 CONTAINS 21 STUDENT INVESTIGATIONS - EXPERIMENTS, DEMONSTRATIONS, PROJECTS - DESIGNED TO ILLUSTRATE SUCH PROCESSES AS EVAPORATION, CONDENSATION, AND OXIDATION AND PROVIDE OPPORTUNITIES TO EXPERIMENT WITH SOLUTIONS, SUSPENSIONS, AND PRECIPITATES. UTILIZING A QUESTION FORMAT, THE LAST CHAPTER OUTLINES A SERIES OF DISCUSSIONS, ACTIVITIES, AND PROJECTS CONCERNING WATER POLLUTION SUITED TO INDIVIDUAL, SMALL GROUP, AND LARGE GROUP WORK. NUMEROUS ILLUSTRATIONS SUPPLEMENT THE TEXT. RELATED DOCUMENTS ARE SE 012 758 AND SE 012 760. (BL)

AVAILABILITY: ADDISON-WESLEY PUBLISHING COMPANY, INC.

ACCESSION NUMBERS: ED056906 SE012758

PUBLICATION DATE: 71

TITLE: AIR POLLUTION, TEACHERS' EDITION.

PERSONAL AUTHOR: LAVARONI, CHARLES W.; O'DONNELL, PATRICK A.

DESCRIPTOR: *AIR POLLUTION CONTROL; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; INVESTIGATIONS; *JUNIOR HIGH SCHOOL STUDENTS; LEARNING ACTIVITIES; POLLUTION; SECONDARY SCHOOL SCIENCE; STUDENT RESEARCH; *TEACHING GUIDES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 94P.

ISSUE: RIEMAR72

ONE OF THREE IN A SERIES ABOUT POLLUTION, THIS TEACHER'S GUIDE FOR A UNIT ON AIR POLLUTION IS DESIGNED FOR USE IN JUNIOR HIGH SCHOOL GRADES. IT OFFERS SUGGESTIONS FOR EXTENDING THE INFORMATION AND ACTIVITIES CONTAINED IN THE TEXTUAL MATERIAL FOR STUDENTS. CHAPTER 1 DISCUSSES THE PROBLEM OF AIR POLLUTION AND INVOLVES STUDENTS IN PROCESSES OF OBSERVING, GATHERING DATA, ANALYZING, AND HYPOTHESIZING. CHAPTER 2 GIVES UP-TO-DATE INFORMATION PERTAINING TO THE PROBLEMS AND CONSIDERS POLLUTION DISASTERS, CONDITIONS NECESSARY FOR AIR POLLUTION TO DEVELOP, NATURAL AND MAN-MADE AIR POLLUTION, THE EFFECTS OF AIR POLLUTION, ECONOMIC COSTS, AND CONTROL AND POSSIBLE SOLUTIONS TO AIR POLLUTION. CHAPTER 3 CONTAINS 25 STUDENT INVESTIGATIONS - EXPERIMENTS, DEMONSTRATIONS, PROJECTS - DESIGNED TO ILLUSTRATE THE PHYSICAL PROPERTIES OF AIR, EFFECTS OF AIR MOVEMENT, CHEMICAL CHANGES IN AIR, AND POLLUTION ACCUMULATION AND GIVES PRACTICE IN OBSERVING, PREDICTING, AND HYPOTHESIZING AS WELL AS CONTROLLING EXPERIMENTS. A CONCEPTUAL SCHEMATA FOR THE EXPERIMENTS IS INCLUDED. UTILIZING A QUESTION FORMAT, THE LAST CHAPTER OUTLINES A SERIES OF DISCUSSIONS, ACTIVITIES, AND PROJECTS CONCERNING AIR POLLUTION SUITED TO INDIVIDUAL, SMALL GROUP, AND LARGE GROUP WORK. NUMEROUS ILLUSTRATIONS SUPPLEMENT THE TEXT. RELATED DOCUMENTS ARE SE 012 759 AND SE 012 760. (BL)

AVAILABILITY: ADDISON-WESLEY PUBLISHING COMPANY, INC.

ACCESSION NUMBERS: ED056880 SE012643

PUBLICATION DATE: 1 SEP 71

TITLE: ENVIRONMENT INFORMATION ACCESS, VOLUME 1 NUMBER 15.

INSTITUTION CODE: BBB05546

DESCRIPTOR: *ABSTRACTS; *ENVIRONMENT; *INDEXES (LOCATERS); INFORMATION DISSEMINATION; *INFORMATION SCIENCE; NATURAL RESOURCES; PERIODICALS; *POLLUTION; RESOURCE MATERIALS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 66P.

ISSUE: RIEMAR72

ACCESS IS AN INDEXING, ABSTRACTING, AND INFORMATION RETRIEVAL SERVICE COVERING PUBLISHED AND NON-PRINT INFORMATION ON ENVIRONMENTAL POLLUTION, CONSERVATION, AND RELATED FIELDS. IT PROVIDES AN OVERVIEW OF THE ENVIRONMENTAL REPORTING OF MORE THAN 1000 SCHOLARLY, SCIENTIFIC, INDUSTRIAL, TECHNICAL, AND GENERAL PERIODICALS AND MAJOR NEWSPAPERS; IMPORTANT ENVIRONMENTAL RADIO AND TELEVISION PROGRAMMING, FILMS AND FILMSTRIPS, BOOKS, CORPORATE PUBLICATIONS, AND MAJOR CONFERENCE PUBLICATIONS. INTRODUCTORY PAGES EXPLAIN THE ACCESS SYSTEM, THE ECOLOGY FORUM, AND SIGNIFICANT INFORMATION APPEARING IN THE ISSUE. THE MAIN ENTRY SECTION CONTAINS DOCUMENT ABSTRACTS RELATED TO: AIR POLLUTION, CHEMICAL AND BIOLOGICAL CONTAMINATION, ENERGY, ENVIRONMENTAL ACTION, ENVIRONMENTAL DESIGN, FOOD, INTERNATIONAL ASPECTS, LAND USE AND MISUSE, NOISE POLLUTION, NON-RENEWABLE RESOURCES, OCEANS AND ESTUARIES, POPULATION PLANNING AND CONTROL, RADIOLOGICAL CONTAMINATION, RECREATION, RENEWABLE RESOURCES, SOLID WASTES, TRANSPORTATION, WATER POLLUTION, WEATHER MODIFICATION AND GEOGRAPHICAL CHANGE, AND WILDLIFE. ADDITIONAL SECTIONS DEAL WITH REVIEWS OF RECENT BOOKS IN ENVIRONMENTAL AREAS; AND SUBJECT, INDUSTRY, AND AUTHOR INDEXES. (BB)

AVAILABILITY: ENVIRONMENT INFORMATION CENTER, INC., 124 EAST 39TH STREET, NEW YORK, NEW YORK 10016

INSTITUTION NAME: ENVIRONMENT INFORMATION CENTER, NEW YORK, N.Y.

ACCESSION NUMBERS: ED056877 SE012629

PUBLICATION DATE: FEB 71

TITLE: TETE: TOTAL EDUCATION IN THE TOTAL ENVIRONMENT.

PERSONAL AUTHOR: EBLEN, WILLIAM R.

INSTITUTION CODE: BBB05612

DESCRIPTOR: *COMMUNITY INVOLVEMENT; CURRICULUM DEVELOPMENT; ECOLOGY; EDUCATIONAL PROGRAMS; *ENVIRONMENTAL EDUCATION; *INTERDISCIPLINARY APPROACH; *PROGRAM DESCRIPTIONS; PROJECTS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 28P.

ISSUE: RIEMAR72

THE HUDSON RIVER MUSEUM'S ENVIRONMENTAL ARTS AND SCIENCE DIVISION HAS PUBLISHED THIS BOOKLET DESCRIBING THEIR MODEL EDUCATIONAL PROGRAM, "TETE: TOTAL EDUCATION IN THE TOTAL ENVIRONMENT," A MULTIDISCIPLINARY APPROACH TO ENVIRONMENTAL EDUCATION UTILIZING EXISTING CURRICULA. FOR CONDUCTING THE PROGRAM MODEL COMMUNITIES STRATEGICALLY LOCATED ALONG THE HUDSON RIVER ARE SELECTED TO ILLUSTRATE THE CONCEPT OF THE TOTAL ENVIRONMENT, STRESS THAT EVERY COMMUNITY HAS A WEALTH OF HUMAN RESOURCES THAT CAN BE USED IN DEVELOPING AN UNDERSTANDING OF THE ECOLOGY OF MAN, AND EMPHASIZE THAT LOCAL EXAMPLES PROVIDE THE MOST RELEVANT EDUCATION FOR ALL AGES. ADMINISTRATIVE ORGANIZATION, PROGRAM DEVELOPMENT AND IMPLEMENTATION ARE EXPLAINED TOGETHER WITH THE UNIQUE ASPECTS OF THE TOTAL ENVIRONMENT APPROACH. DETAILED ARE THE UNDERLYING CONCEPTS, COMMUNITY AND CURRICULUM COMPONENTS, ILLUSTRATIONS OF HOW THE CURRICULUM COMPONENTS MAY BE APPLIED IN THE CLASSROOM, AND SOME OF THE TECHNIQUES USED IN THIS APPROACH--UNIFYING QUESTIONS, ON-SITE INVESTIGATION, COMMON BASE MAPS, AND COMMUNITY RESOURCES. SEVERAL DIAGRAMS AND PICTURES FURTHER DEPICT THE PROGRAM ACTIVITIES. (BL)

AVAILABILITY: HUDSON RIVER MUSEUM, 511 WARBURTON AVENUE, YONKERS, NEW YORK 10701 ($0.75)

INSTITUTION NAME: HUDSON RIVER MUSEUM, YONKERS, N.Y.

ACCESSION NUMBERS: ED056875 SE012593

PUBLICATION DATE: AUG 71

TITLE: SCICON MASTER PLAN. A REPORT TO THE EDUCATION FACILITIES LABORATORY.

INSTITUTION CODE: CIQ08818

DESCRIPTOR: CURRICULUM DEVELOPMENT; *ENVIRONMENTAL EDUCATION; *FACILITY REQUIREMENTS; INTERDISCIPLINARY APPROACH; *MASTER PLANS; PLANNING; *PROGRAM DEVELOPMENT; SITE DEVELOPMENT

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 105P.

ISSUE: RIEMAR72

SCICON, CURRENTLY DESIGNATING THE CLEMMIE GILL SCHOOL OF SCIENCE AND CONSERVATION, IS AN ENVIRONMENTAL EDUCATION PROGRAM PROVIDING SIXTH GRADE STUDENTS OPPORTUNITIES TO LEARN ABOUT SCIENCE, CONSERVATION, AND ECOLOGICAL RELATIONSHIPS IN THE NATURAL ENVIRONMENT. THE TITLE, SCICON, DESIGNATES BOTH A SCHOOL CAMPUS AND AN INSTRUCTIONAL PROGRAM. SECTION I OF THIS REPORT DESCRIBES THE PLANNING GRANT APPLICATION, A TWO-PART PROPOSAL TO: (1) COORDINATE AND FACILITATE A MULTIDISCIPLINARY AND INTERDISCIPLINARY APPROACH TO ENVIRONMENTAL EDUCATION WHICH INTEGRATES THE NATURAL SCIENCES, BEHAVIORAL SCIENCES, AND HUMANITIES INTO A UNIFIED APPROACH TO PROBLEM SOLVING AND LEARNING, AND (2) ESTABLISH, UNDER A UNIQUE ADMINISTRATIVE SYSTEM, VARIOUS CENTERS AND FACILITIES FOR RESEARCH AND STUDY. SECTION II GIVES AN OVERVIEW OF THE PROGRAM, PHILOSOPHY, AND FACILITIES. FORMATION, ACTIVITIES, FINDINGS AND RECOMMENDATIONS OF THE TASK FORCE FOR DEVELOPING THE MASTER PLAN ARE DETAILED IN SECTION III. THEY CONSIDER CENTERS FOR ADMINISTRATION-OPERATION, ENVIRONMENTAL EDUCATION, HUMANITIES, AND CONFERENCES. SECTION IV DELINEATES EDUCATIONAL SPECIFICATIONS FOR THE FOUR CENTERS, OUTLINING REQUIREMENTS FOR SITE, PLANNING, AND SPACE. A DESCRIPTION OF THE LONG RANGE PLANNING PROGRAM AND A SITE AND FACILITIES MAP COMPRISE SECTION V WHILE SECTION VI DEALS WITH PROJECT DEVELOPMENT AND CONSTRUCTION - PHASING AND PRIORITIES, RECOMMENDATIONS FOR ADDITIONAL LAND ACQUISITION, AND BUDGET COSTS. (BL)

INSTITUTION NAME: TULARE COUNTY DEPT. OF EDUCATION, VISALIA, CALIF.

ACCESSION NUMBERS: ED056874 SE012586

PUBLICATION DATE: 71

TITLE: TOWN AND TOWNSHIPS.

PERSONAL AUTHOR: ANDERSON, PAT

INSTITUTION CODE: ZQU44500

DESCRIPTOR: AUDIOVISUAL AIDS; ENVIRONMENTAL EDUCATION; FILMSTRIPS; INSTRUCTIONAL MATERIALS; *INTERMEDIATE GRADES; *LAND USE; *MUNICIPALITIES; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 47P.

ISSUE: RIEMAR72

LONG RANGE EFFECTS OF EARLY PUBLIC LAND SURVEYS, THE DISTINCTION BETWEEN TOWNS AND TOWNSHIPS, AND THE SIGNIFICANCE OF TOWN GOVERNMENT IN MODERN WISCONSIN ARE PORTRAYED IN THIS TEACHER'S GUIDE FOR UPPER ELEMENTARY GRADES. WITH SUPPLEMENTARY MATERIALS IT COULD BE USED IN A UNIT ON LOCAL OR WISCONSIN GEOGRAPHY, AS AN INTRODUCTION TO PROBLEMS OF URBAN GROWTH, OR AS A SEGMENT ON GOVERNMENTAL ENTITIES WHICH MAKE UP A MODERN METROPOLITAN AREA. TWO FILMSTRIPS ARE EMPLOYED TO PRESENT THE FACTS. PART I DESCRIBES THE PUBLIC LAND SURVEY AND ITS EFFECTS PARTICULARLY ON FARM BOUNDARIES, FIELD SHAPES AND PLOWING PATTERNS, ROAD LOCATIONS, AND COMMUNITY SHAPES AND PATTERNS. PART II DEALS WITH THE EFFECTS OF THE SURVEY ON PATTERNS OF LOCAL GOVERNMENT IN WISCONSIN AND RAISES SOME QUESTIONS ON THE CONSEQUENCES OF 19TH CENTURY GOVERNMENTAL PATTERNS AS THEY COMPLICATE 20TH CENTURY URBAN GROWTH. BOTH FILMSTRIPS ARE EXPLAINED IN THEIR ENTIRETY, ILLUSTRATING EACH FRAME AND ITS ACCOMPANYING SCRIPT. SUPPLEMENTARY MATERIALS IN THE BOOKLET RELATE THE LONG RANGE SIGNIFICANCE OF THE LAND ORDINANCE OF 1785, EARLY POLICY QUESTIONS OF LAND USE, METHODS OF ESTABLISHING AND MAINTAINING BOUNDARY LINES, AND THE NUMBERING AND DESCRIBING OF SECTIONS, TOWNSHIPS, AND RANGES. ADDITIONAL MATERIALS INCLUDE MAPS, TESTS, A BIBLIOGRAPHY, AND SUGGESTED USES OF THE MATERIALS. FILMSTRIPS ARE NOT INCLUDED. (BL)

INSTITUTION NAME: MADISON PUBLIC SCHOOLS, WIS.

ACCESSION NUMBERS: ED056873 SE012585

PUBLICATION DATE: 71

TITLE: EAGLE HEIGHTS WOODS: MAN'S USE OF LAND.

PERSONAL AUTHOR: PRATT, CAY; NELSON, REDGY

INSTITUTION CODE: ZQU44500

DESCRIPTOR: AUDIOVISUAL AIDS; *ECOLOGY; *ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; FILMSTRIPS; INSTRUCTIONAL MATERIALS; *LAND USE; OUTDOOR EDUCATION; *SEMANTICS; *TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 17P.

ISSUE: RIEMAR72

THIS TEACHER'S GUIDE FOR USE IN THE ELEMENTARY GRADES WAS PREPARED AS A RESULT OF THE 1970 LOCAL MATERIALS WORKSHOP ON OUTDOOR EDUCATION, MADISON, WISCONSIN. IT DEVELOPS THE CONCEPT OF A LAND ETHNIC AS EXPRESSED BY ALDO LEOPOLD IN "A SAND COUNTY ALMANAC". A FILMSTRIP IS EMPLOYED TO DISCOVER THE MEANING OF SEVERAL WORDS PERTINENT TO ECOLOGY--ENVIRONMENT, ECOSYSTEM, COMMUNITY, HABITAT, NICHE, FOOD CHAIN OR WEB, PRIMARY PRODUCERS, CONSUMERS, DECOMPOSERS, PREDATORS, CAMOUFLAGE, AND SUCCESSION. SETTINGS FOR SUCH DISCOVERY INCLUDE THE SCHOOLYARD, GOING TO AND FROM SCHOOL, HOME, A NEARBY FIELD, AND EAGLE HEIGHTS WOODS. THE FILMSTRIP IS EXPLAINED IN ITS ENTIRETY, ILLUSTRATING EACH FRAME AND ITS ACCOMPANYING SCRIPT. THE FILMSTRIP IS NOT INCLUDED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BL)

INSTITUTION NAME: MADISON PUBLIC SCHOOLS, WIS.

ACCESSION NUMBERS: ED056872 SE012584

PUBLICATION DATE: 71

TITLE: BIRDS OF PREY.

PERSONAL AUTHOR: IRWIN, HARRIET

INSTITUTION CODE: ZOU44500

DESCRIPTOR: ANIMAL SCIENCE; AUDIOVISUAL AIDS; ECOLOGY; *ENVIRONMENTAL EDUCATION; FILMSTRIPS; *INSTRUCTIONAL MATERIALS; *INTERMEDIATE GRADES; *TEACHING GUIDES; *WILDLIFE MANAGEMENT

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 22P.

ISSUE: RIEMAR72

INTRODUCING STUDENTS TO DIFFERENT HAWKS AND OWLS FOUND IN WISCONSIN AND BUILDING A BASIS FOR APPRECIATION OF THESE BIRDS IN THEIR OWN ENVIRONMENT IS THE PURPOSE OF THIS TEACHER'S GUIDE. PRIMARILY GEARED FOR UPPER ELEMENTARY AND JUNIOR HIGH GRADES, THE CONCEPTS PRESENTED COULD BE USED IN CONJUNCTION WITH THE STUDY OF ECOLOGY. A FILMSTRIP IS EMPLOYED TO INCREASE THE STUDENT'S KNOWLEDGE AND UNDERSTANDING OF THE ESSENTIAL ROLE OF THESE ANIMALS. A CRUCIAL POINT EMPHASIZED IS THE NECESSITY FOR PROPER HABITAT IN ORDER FOR THE BIRDS OF PREY TO SURVIVE, FOR IF THIS HABITAT IS CHANGED OR DESTROYED, THE BIRDS WILL BE ELIMINATED. ADDITIONAL TOPICS INCLUDE BIRD CHARACTERISTICS, FOOD REQUIREMENTS, LIFE CYCLES, VALUE OF THE BIRDS IN A NATURAL COMMUNITY, AND EFFECTS OF MAN. THE FILMSTRIP IS EXPLAINED IN ITS ENTIRETY, ILLUSTRATING EACH FRAME AND ITS ACCOMPANYING SCRIPT. BRACKETED PARAGRAPHS PROVIDE THE TEACHER WITH ADDITIONAL INFORMATION. ALSO INCLUDED ARE CHARTS SHOWING BIRDS OF PREY FOUND IN WISCONSIN, BUILD-UP OF DDT RESIDUES IN OSPREY EGGS, ABUNDANCE OF BREEDING ANIMALS IN A SQUARE MILE, AND RESOURCE MATERIALS. TWO MAGAZINE ARTICLES ABOUT BALD EAGLES AND PEREGRINE FALCONS ARE REPRODUCED. THE FILMSTRIP IS NOT INCLUDED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BL)

INSTITUTION NAME: MADISON PUBLIC SCHOOLS, WIS.

ACCESSION NUMBERS: ED056871 SE012583

PUBLICATION DATE: 71

TITLE: HO-NEE-UM TRAIL.

PERSONAL AUTHOR: IRWIN, HARRIET; AND OTHERS

INSTITUTION CODE: ZQU44500

DESCRIPTOR: AUDIOVISUAL AIDS; ECOLOGY; *ELEMENTARY GRADES; FILMSTRIPS; *INSTRUCTIONAL MATERIALS; INSTRUCTIONAL TRIPS; *NATURAL RESOURCES; *OUTDOOR EDUCATION; *TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 31P.

ISSUE: RIEMAR72

APPRECIATION AND CONCERN FOR THE PRESERVATION OF OUR NATURAL RESOURCES BY ALL CITIZENS IS THE PRIMARY CONCERN OF THIS TEACHER'S GUIDE FOR USE IN THE ELEMENTARY GRADES. IT EMPLOYES THE USE OF A FILMSTRIP IN CONJUNCTION WITH A LOCAL NATURE TRAIL, TO GUIDE STUDENTS IN DEVELOPING AWARENESS - BY LOOKING CLOSELY, LISTENING, TOUCHING, AND SMELLING. MAJOR THEMES OF THE FALL TOUR CONSIDER PLANT AND ANIMAL RELATIONSHIPS, SEED DISPERSAL, AND GETTING READY FOR WINTER. THE FILMSTRIP IS EXPLAINED IN ITS ENTIRETY, ILLUSTRATING EACH FRAME AND ITS ACCOMPANYING SCRIPT. QUESTIONS IN THE SCRIPT ARE DESIGNED TO ENCOURAGE CLASS DISCUSSION DURING THE VIEWING TIME. BRACKETED PARAGRAPHS PROVIDE THE TEACHER WITH ADDITIONAL INFORMATION. LOCAL HISTORY AND USE OF THE AREA ARE PRESENTED IN FOUR SHORT NARRATIONS; WINNEBAGO INDIANS OF THE FOUR LAKES AREA, GORHAM SPRING - THE DUCK POND, THE MARSTON SPRING, AND THE ARBORETUM SPRING. ALSO INCLUDED IS AN ARTICLE ABOUT THE COMMON GROUND MOLE. THE FILMSTRIP IS NOT INCLUDED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BL)

INSTITUTION NAME: MADISON PUBLIC SCHOOLS, WIS.

ACCESSION NUMBERS: ED056870 SE012578

PUBLICATION DATE: 69

TITLE: WHAT CAN YOU DO TO BENEFIT WILDLIFE ON YOUR LAND?

INSTITUTION CODE: BBB05609; BBB05610

DESCRIPTOR: ANIMAL SCIENCE; *CONSERVATION EDUCATION; INSTRUCTIONAL MATERIALS; *LAND USE; *MANUALS; NATURAL RESOURCES; PLANT SCIENCE; *WILDLIFE MANAGEMENT

IDENTIFIER: TENNESSEE VALLEY AUTHORITY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 19P.

ISSUE: RIEMAR72

ALTHOUGH THIS MANUAL WAS DEVELOPED BY TENNESSEE VALLEY AUTHORITY (TVA) TECHNICIANS IN THE MANAGEMENT OF TVA LANDS, IT MAY BE WELL UTILIZED BY PRIVATE LANDOWNERS INTERESTED IN DOING SOMETHING FOR WILDLIFE ON THEIR OWN PROPERTY. THE BOOKLET INCLUDES BASIC INFORMATION ABOUT WILDLIFE IN GENERAL AND SEVEN SPECIES IN PARTICULAR--THE WHITE-TAILED DEER, RUFFED GROUSE, RACCOON, AND GRAY SQUIRREL OF THE WOODLANDS AND THE BOBWHITE QUAIL, COTTONTAIL RABBIT, AND MOURNING DOVE FOUND IN THE OPEN FIELDS. IT SUGGESTS IMPROVEMENT PRACTICES WHICH ARE INEXPENSIVE AND MAY BE SCALED TO INDIVIDUAL INTEREST AND CAPACITY. POINTERS ABOUT WILDLIFE AROUND THE HOME ARE ALSO INCLUDED. (BL)

INSTITUTION NAME: TENNESEE VALLEY AUTHORITY, NORRIS, TENN. DIV. OF FORESTRY, FISHERIES, AND WILDLIFE DEVELOPMENT.; TENNESSEE GAME AND FISH COMMISSION, NASHVILLE.

ACCESSION NUMBERS: ED056869 SE012577

PUBLICATION DATE: DEC 70

TITLE: WISCONSIN DEPARTMENT OF PUBLIC INSTRUCTION NEWSLETTER, VOLUME 24 NUMBER 4. THIS FRAGILE EARTH.

PERSONAL AUTHOR: GUDMUNDSEN, JOHN

INSTITUTION CODE: ZQU97875

DESCRIPTOR: *CURRICULUM DEVELOPMENT; EDUCATIONAL PROGRAMS; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *NEWSLETTERS; PERIODICALS; RESOURCE MATERIALS

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 48P.

ISSUE: RIEMAR72

"THIS FRAGILE EARTH" IS THE THEME PORTRAYED IN THIS NEWSLETTER FROM THE WISCONSIN DEPARTMENT OF PUBLIC INSTRUCTION. SINCE WE ARE BEING FACED WITH THE PROBLEM OF SURVIVAL BECAUSE OF THE DETERIORATION OF THE ENVIRONMENT, IT IS SUGGESTED THAT THE FRAGILE QUALITY OF THE ENVIRONMENT CAN SERVE AS A MEANS OF IMPRESSING UPON YOUNG PEOPLE THEIR RESPONSIBILITIES FOR STEWARDSHIP OF THEIR ENVIRONMENT. TO THIS END, SEVERAL ARTICLES ADDRESS THEMSELVES TO VARIOUS FACETS OF THE WHOLE TOPIC OF ENVIRONMENTAL EDUCATION AND THE SPIRIT OF STEWARDSHIP. "TRANSFORMING MAN'S ATTITUDE TOWARD THE WORLD" IS THE LEAD ARTICLE BY SEN. GAYLORD NELSON, RELATING SEVERAL RAMIFICATIONS OF THE ENVIRONMENTAL EDUCATION ACT OF 1970. OTHER WRITINGS DEAL WITH SCIENCE, SOCIAL STUDIES, AESTHETICS, AND MATH IN THE ENVIRONMENT AND IN ENVIRONMENTAL EDUCATION. CURRICULUM DEVELOPMENT IS EXPLORED IN TWO ARTICLES, "ENVIRONMENTAL EDUCATION: AN ACTION MODEL," AND "IMPROVING WISCONSIN HIGH SCHOOL CONSERVATION COURSES." ONE ADDITIONAL STORY CHARACTERIZES A SCHOOL SITE FOR ENVIRONMENTAL EDUCATION AT THE FOREST PARK OUTDOOR EDUCATION CENTER, FRANKLIN, WISCONSIN. MISCELLANEOUS ITEMS OF LOCAL INTEREST COMPLETE THE NEWSLETTER. (BL)

INSTITUTION NAME: WISCONSIN STATE DEPT. OF PUBLIC INSTRUCTION, MADISON.

ACCESSION NUMBERS: ED056868 SE012562

PUBLICATION DATE: 71

TITLE: ENVIRONMENTAL POLLUTION, TEACHER'S MANUAL (EXPERIENCES/EXPERIMENTS/ACTIVITIES).

PERSONAL AUTHOR: WEAVER, ELBERT C.

INSTITUTION CODE: BBB05611

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *JUNIOR HIGH SCHOOL STUDENTS; LEARNING ACTIVITIES; *POLLUTION; SCIENCE EDUCATION; *SCIENCE EXPERIMENTS; *TEACHING GUIDES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 62P.

ISSUE: RIEMAR72

DESCRIBED IN THIS TEACHER'S GUIDE ARE NUMEROUS EXPERIMENTS TEACHERS MAY USE TO GUIDE STUDENTS IN LEARNING ABOUT COMMUNITY ENVIRONMENTAL PROBLEMS. EXPERIMENTS ARE RELATIVELY SIMPLE AND USEFUL IN THE JUNIOR HIGH SCHOOL GRADES. ACTIVITIES ALLOW THE STUDENT TO BECOME ACQUAINTED WITH THE METHODS FOR THE DETECTION AND REMOVAL OF UNDESIRABLE MATERIALS FROM THE AIR AND WATER. FOR EACH EXPERIMENT, BACKGROUND INFORMATION IS GIVEN TOGETHER WITH PROCEDURES FOR PERFORMING THE EXPERIMENT, EQUIPMENT NEEDED, POSSIBLE SOLUTIONS TO THE PROBLEM, AND ADDITIONAL APPROACHES IN CONDUCTING THE ACTIVITY. MODIFICATIONS TO MEET LOCAL COMMUNITY CONDITIONS ARE ENCOURAGED. FOLLOWING THE EXPERIMENTS ARE COMMENTS ON THE ADVANCED POLLUTION QUIZ. A RELATED DOCUMENT IS THE STUDENT BOOK, SE 012 561. (BL)

AVAILABILITY: HOLT, RINEHART AND WINSTON, INC., 383 MADISON AVENUE, NEW YORK, NEW YORK 10017

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOCIATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED056867 SE012561

PUBLICATION DATE: 71

TITLE: ENVIRONMENTAL POLLUTION, STUDENT'S BOOK (EXPERIENCES/EXPERIMENTS/ACTIVITIES).

PERSONAL AUTHOR: WEAVER, ELBERT C.

INSTITUTION CODE: BBB05611

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *JUNIOR HIGH SCHOOL STUDENTS; *LABORATORY MANUALS; LEARNING ACTIVITIES; *POLLUTION; SCIENCE EDUCATION; *SCIENCE EXPERIMENTS; STUDENT RESEARCH

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 61P.

ISSUE: RIEMAR72

DESCRIBED IN THIS STUDENT'S MANUAL ARE NUMEROUS EXPERIMENTS TO ACQUAINT THE LEARNER WITH COMMUNITY ENVIRONMENTAL PROBLEMS. EXPERIMENTS ARE RELATIVELY SIMPLE AND USEFUL IN THE JUNIOR HIGH SCHOOL GRADES. ACTIVITIES ARE PROVIDED WHICH EMPHASIZE SOME OF THE MATERIALS INVOLVED IN POLLUTION PROBLEMS, SUCH AS CARBON DIOXIDE, SULFUR COMPOUNDS, AND OTHERS, EXCEPTING THOSE WHICH WOULD BE HAZARDOUS TO STUDENT HEALTH. EXPERIMENTS ARE "OPEN-ENDED" IN THAT PROBLEMS ARE PRESENTED AND METHODS RECOMMENDED BY WHICH THEY MAY BE SOLVED. HOWEVER, THESE METHODS ARE NOT THE ONLY ONES AND ALTERNATIVE APPROACHES ARE SUGGESTED AND ENCOURAGED. FOLLOWING THE EXPERIMENTS ARE ELEMENTARY AND ADVANCED POLLUTION QUIZZES. A RELATED DOCUMENT IS THE TEACHER'S MANUAL, SE 012 562. (BL)

AVAILABILITY: HOLT, RINEHART AND WINSTON, INC., 383 MADISON AVENUE, NEW YORK, NEW YORK 10017

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOCIATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED056862 SE012164 42

PUBLICATION DATE: 70

TITLE: UNIVERSITY CURRICULUMS AND FELLOWSHIPS IN RADIOLOGICAL HEALTH.

PERSONAL AUTHOR: VILLFORTH, JOHN C.

INSTITUTION CODE: BBB04337

DESCRIPTOR: COLLEGE CURRICULUM; *COLLEGE PROGRAMS; DIRECTORIES; ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL TECHNICIANS; GRADUATE STUDY; PROGRAM DESCRIPTIONS; *RADIATION; *RADIOLOGIC TECHNOLOGISTS; UNDERGRADUATE STUDY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 89P.

ISSUE: RIEMAR72

THIS BOOKLET DESCRIBES THE ACADEMIC PROGRAMS FUNDED THROUGH THE RADIOLOGICAL HEALTH TRAINING GRANTS PROGRAM. GRADUATE PROGRAMS FOR THE TRAINING OF RADIOLOGICAL HEALTH SPECIALISTS AT 28 UNIVERSITIES AND UNDERGRADUATE (TWO YEAR AND FOUR YEAR) RADIOLOGICAL TECHNICAL PROGRAMS AT SEVEN INSTITUTIONS ARE DESCRIBED. PROGRAM DESCRIPTIONS INCLUDE DEGREE(S) OFFERED, PREREQUISITES, LIST OF REQUIRED AND ELECTIVE COURSES, PROGRAM OBJECTIVES, AND THE DEPARTMENT ADDRESS. A BACHELOR'S DEGREE WITH A MAJOR IN A SCIENCE OR ENGINEERING IS GENERALLY PREREQUISITE FOR ENTRY INTO THE GRADUATE PROGRAMS. (PR)

REPORT NUMBER: BRH-OBD-70-2

INSTITUTION NAME: PUBLIC HEALTH SERVICE (DHEW), ROCKVILLE, MD. ENVIRONMENTAL HEALTH SERVICE.

ACCESSION NUMBERS: ED056854 SE010425 43

PUBLICATION DATE: 69

TITLE: INDUSTRY AND TECHNOLOGY: KEYS TO OCEANIC DEVELOPMENT. VOLUME 2, PANEL REPORTS OF THE COMMISSION ON MARINE SCIENCE, ENGINEERING AND RESOURCES.

INSTITUTION CODE: BBB04335

DESCRIPTOR: DEVELOPMENT; EARTH SCIENCE; *ECONOMIC DEVELOPMENT; ENVIRONMENT; *INDUSTRY; *NATURAL RESOURCES; *OCEAN ENGINEERING; *OCEANOLOGY; RESOURCE MATERIALS; TECHNOLOGY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$13.16

DESCRIPTIVE NOTE: 319P.

ISSUE: RIEMAR72

THIS DOCUMENT IS THE SECOND OF A THREE-VOLUME SERIES OF PANEL REPORTS COMPILED BY THE COMMISSION ON MARINE SCIENCE, ENGINEERING AND RESOURCES. CONTAINED IN THIS VOLUME ARE PART V, REPORT OF THE PANEL ON INDUSTRY AND PRIVATE INVESTMENT, AND PART VI, REPORT OF THE PANEL ON MARINE ENGINEERING AND TECHNOLOGY. MAJOR RECOMMENDATIONS PRESENTED IN PART V RELATE TO CONSOLIDATION OF FEDERAL FUNCTIONS, MULTIPURPOSE TECHNOLOGY, AND ATTRACTING ENTREPRENEURIAL INVESTMENT. THE FOUR CHAPTERS FOLLOWING THE RECOMMENDATIONS IN PART V REVIEW THE PRESENT STATUS OF INDUSTRIAL ACTIVITIES AND INVESTMENTS, POLICIES TO ACCELERATE INDUSTRIAL DEVELOPMENT OF MARINE RESOURCES, AND THE VARIOUS OCEAN INDUSTRIES. PART VI ASSESSES THE PRESENT NATIONAL EFFORT IN MARINE ENGINEERING AND TECHNOLOGY AND INCLUDES BROAD GUIDANCE FOR THE ECONOMIC AND RATIONAL DEVELOPMENT OF THE U. S. CAPABILITY IN THE MARINE ENVIRONMENT. (PR)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (CAT NO. PR 36.8:M 33/PV.1-3, $10.25, SOLD IN SETS OF 3 VOLUMES ONLY)

INSTITUTION NAME: COMMISSION ON MARINE SCIENCE, ENGINEERING AND RESOURCES, WASH., D.C.

ACCESSION NUMBERS: ED056836 RE003993 44

PUBLICATION DATE: 70

TITLE: THE NEWSPAPER IN THE CLASSROOM: TEACHING AIDS FOR ELEMENTARY SCHOOLS.

PERSONAL AUTHOR: HELLEIS, SHIRLEY C.; AND OTHERS

INSTITUTION CODE: BBB05614

DESCRIPTOR: CREATIVE THINKING; CRITICAL THINKING; *ELEMENTARY GRADES; *ENRICHMENT ACTIVITIES; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL AIDS; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; *NEWSPAPERS; *TEACHING GUIDES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 153P.

ISSUE: RIEMAR72

FOUR BOOKLETS ON THE USES OF NEWSPAPERS IN THE ELEMENTARY CLASSROOM ARE INCLUDED. "DEVELOPING CREATIVE AND CRITICAL THINKING SKILLS THROUGH USE OF THE NEWSPAPER IN THE ELEMENTARY CLASSROOM" OUTLINES HOW NEWSPAPER ARTICLES CAN PROVIDE A BASIS FOR DISCUSSIONS OF ISSUES, DEVELOPMENT OF LANGUAGE SKILLS AND VOCABULARY, AND COMPOSITION ASSIGNMENTS. "YOUR NEWSPAPER: AN EXCITING WORLD AT YOUR FINGERTIPS" DESCRIBES WHAT A NEWSPAPER IS, HOW IT IS USED, HOW IT CAN HELP IN SCHOOL WORK, AND SUGGESTS PROJECTS USING NEWSPAPERS. "THE NEWSPAPER IN THE CLASSROOM: A TWO-WEEK TEACHING UNIT FOR ELEMENTARY GRADES" PROVIDES LESSON PLANS, SUGGESTIONS FOR PROJECTS, GAMES, AND CLASS ACTIVITIES USING NEWSPAPERS, AND BULLETIN BOARD SUGGESTIONS. "THE NEWSPAPER AND THE STUDY OF MAN AND HIS ENVIRONMENT" DETAILS CLASS ACTIVITIES IN VARIOUS AREAS (LANGUAGE ARTS, SOCIAL STUDIES, ART, MUSIC, AND SCIENCE) WHICH USE NEWSPAPERS AS A RESOURCE FOR STUDYING ECOLOGY. A LIST OF RELATED FILMS AND SEVERAL BIBLIOGRAPHIES ARE INCLUDED. (AL)

AVAILABILITY: COPLEY NEWSPAPERS, DEPARTMENT OF EDUCATION, 940 THIRD AVENUE, SAN DIEGO, CAL. 92112 ($4.00)

INSTITUTION NAME: COPLEY NEWSPAPERS, SAN DIEGO, CALIF. DEPT. OF EDUCATION.

ACCESSION NUMBERS: ED056384 EA003782

PUBLICATION DATE: JUL 71

TITLE: PLACES FOR ENVIRONMENTAL EDUCATION. A REPORT.

INSTITUTION CODE: QPX23700

DESCRIPTOR: COMMUNITY RESOURCES; *CONFERENCE REPORTS; *CURRICULUM DEVELOPMENT; *EDUCATIONAL FACILITIES; *EDUCATIONAL PLANNING; *ENVIRONMENTAL EDUCATION; PAMPHLETS; REGIONAL PROGRAMS

IDENTIFIER: PROJECT MANS ENVIRONMENT

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 19P.

ISSUE: RIEMAR72

THIS PAMPHLET COMPILES CONFERENCE DISCUSSIONS ON THE IMPLICATIONS OF VARIOUS TYPES OF FACILITIES ON ENVIRONMENTAL EDUCATION PROGRAMS. (AUTHOR/MLF)

AVAILABILITY: EDUCATIONAL FACILITIES LABORATORIES, 477 MADISON AVENUE, NEW YORK, N.Y. 10022 (SINGLE COPIES FREE)

INSTITUTION NAME: EDUCATIONAL FACILITIES LABS., INC., NEW YORK, N.Y.

ACCESSION NUMBERS: ED056298 AC012066

PUBLICATION DATE: 69

TITLE: PROCEEDINGS OF THE NINTH ANNUAL CONFERENCE OF THE AUSTRALIAN ASSOCIATION OF ADULT EDUCATION (AUSTRALIAN NATIONAL UNIVERSITY, AUGUST 22-26, 1969). VOLUME 2. RECENT PROJECTS IN ADULT EDUCATION. RESEARCH IN ADULT EDUCATION.

INSTITUTION CODE: BXG05048

DESCRIPTOR: *ADULT EDUCATION; *CONFERENCES; CONSERVATION EDUCATION; CONTINUATION EDUCATION; *EDUCATIONAL RESEARCH; *ENGLISH (SECOND LANGUAGE); GEOLOGY; MUSIC EDUCATION; PARTICIPANT CHARACTERISTICS; *PROJECTS; RESIDENTIAL PROGRAMS; TELEVISED INSTRUCTION; WOMENS EDUCATION

IDENTIFIER: AUSTRALIA

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 69P.

ISSUE: RIEMAR72

THE PAPERS IN THIS VOLUME WERE PRESENTED AT THE NINTH ANNUAL CONFERENCE OF THE AUSTRALIAN ASSOCIATION OF ADULT EDUCATION. INCLUDED IN THE PROGRAM OF THE CONFERENCE WERE DISCUSSIONS ON "RECENT PROJECTS IN ADULT EDUCATION" AND "RESEARCH IN ADULT EDUCATION." THESE WERE DEALT WITH BY TWO SYNDICATES WHICH MET THROUGHOUT THE CONFERENCE AND PRESENTED REPORTS ON THEIR DISCUSSIONS TO A FINAL PLENARY SESSION OF MEMBERS. THE MATERIAL FOR SYNDICATE 2 CONSISTED OF PAPERS PREPARED BY A NUMBER OF ADULT EDUCATORS WHO DESCRIBED ONE OR MORE PROJECTS INCLUDED IN THEIR PROGRAMS. THE BASIS FOR DISCUSSION BY SYNDICATE 3 WAS A PAPER ON "THE CLIENTELE OF ADULT EDUCATION." THE PAPERS AND OTHER MATERIAL IN THIS VOLUME PROVIDE A RECORD OF THE WORK DONE BY THESE SYNDICATES. (AUTHOR/CK)

INSTITUTION NAME: AUSTRALIAN ASSOCIATION OF ADULT EDUCATI.

ACCESSION NUMBERS: ED055957 SO002060

PUBLICATION DATE: 71

TITLE: PROGRAMS FOR IMPROVING EDUCATION IN THE ENVIRONMENTAL SCIENCES.

INSTITUTION CODE: FGK57295

DESCRIPTOR: *CURRICULUM DEVELOPMENT; DIRECTORIES; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL RESEARCH; GRADUATE STUDY; HIGHER EDUCATION; *INSERVICE TEACHER EDUCATION; INSTITUTES (TRAINING PROGRAMS); *PROJECTS; SCIENCE CURRICULUM; SCIENCES; SECONDARY GRADES; SOCIAL SCIENCES; SOCIAL STUDIES; STUDENT RESEARCH; TEACHER EDUCATION; TEACHER EDUCATOR EDUCATION; UNDERGRADUATE STUDY

IDENTIFIER: *ENVIRONMENTAL SCIENCES; NATIONAL SCIENCE FOUNDATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 26P.

ISSUE: RIEFEB72

THIS IS A LIST OF CURRICULUM PROJECTS SUPPORTED BY THE NATIONAL SCIENCE FOUNDATION (NSF) WHICH INCLUDE MATERIALS WITH ENVIRONMENTAL IMPLICATIONS EVEN THOUGH THE TITLES MAY NOT NECESSARILY INDICATE THAT THIS IS THE CASE. OTHER NSF PROGRAMS LISTED ARE: THE SUMMER INSTITUTES IN ENVIRONMENTAL SCIENCES FOR SECONDARY SCHOOL TEACHERS; SUMMER CONFERENCES AND IN-SERVICE INSTITUTES IN ENVIRONMENTAL SCIENCES; SECONDARY SCHOOL STUDENT SCIENCE TRAINING PROGRAM; UNDERGRADUATE CURRICULUM ACTIVITIES; UNDERGRADUATE INSTRUCTIONAL PERSONNEL DEVELOPMENT PROGRAM; AND, PROJECTS FUNDED FOR STUDENT ORIGINATED AND DIRECTED RESEARCH IN ENVIRONMENTAL PROBLEMS. (VLW)

INSTITUTION NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED055951 SO001993

PUBLICATION DATE: MAY 71

TITLE: POPULATION EDUCATION AS IT EXISTS TODAY: A GLOBAL PERSPECTIVE.

PERSONAL AUTHOR: WAYLAND, SLOAN R.

INSTITUTION CODE: QPX17850

DESCRIPTOR: *CURRICULUM DESIGN; CURRICULUM DEVELOPMENT; CURRICULUM PLANNING; DEMOGRAPHY; DEVELOPED NATIONS; DEVELOPING NATIONS; ECOLOGICAL FACTORS; ENVIRONMENTAL EDUCATION; FAMILY PLANNING; *INTERNATIONAL PROGRAMS; *NATIONAL PROGRAMS; *OVERPOPULATION; *POPULATION GROWTH; RESEARCH NEEDS; SEX EDUCATION

IDENTIFIER: *POPULATION EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 18P.

ISSUE: RIEFEB72

THE AUTHOR TRACES THE EMERGENCE OF NATIONAL AND INTERNATIONAL EFFORTS TOWARD POPULATION EDUCATION, AND SUGGESTS THAT THE GROWING ACCEPTANCE OF ITS NEED AND THE PROBLEMS REVEALED IN THE EARLY EFFORTS HAVE SET THE STAGE FOR A MORE FUNDAMENTAL AND CRITICAL APPRAISAL OF POPULATION EDUCATION. AS A MEANS OF IDENTIFYING ISSUES AND PROBLEMS WHICH WILL FACE AMERICAN EDUCATORS IN THE EXPANSION OF POPULATION EDUCATION ACTIVITIES IN THIS COUNTRY, THE FOLLOWING FIVE ELEMENTS INVOLVED IN ANY CURRICULUM INNOVATION ARE DISCUSSED AS THEY RELATE TO POPULATION EDUCATION: 1) THE NATURE OF THE LEARNER; 2) THE DISTINCTIVE FEATURES OF THE BODY OF KNOWLEDGE RELEVANT FOR THE CURRICULUM; 3) THE SPECIFIC OUTCOMES DESIRED FROM THE INNOVATION; 4) THE QUALITIES OF THE INSTRUCTIONAL STAFF; AND, 5) THE CONSTRAINTS POSED BY THE SOCIAL CHARACTERISTICS OF THE SCHOOL SYSTEM AND ITS PROGRAM. EACH OF THESE IS CONSIDERED BRIEFLY IN ORDER TO SUGGEST AN APPROACH WHICH NEEDS TO BE EMPLOYED MORE EXHAUSTIVELY. SEVERAL THEMES APPEAR THROUGHOUT THE PRESENTATION: 1) THE NEED TO DEVELOP AN APPROACH SPECIFIC TO POPULATION EDUCATION RATHER THAN A PIECEMEAL ADAPTATION OF OLDER PATTERNS; 2) THE NEED FOR RESEARCH ON BACKGROUND FACTORS AS A BASE FOR CURRICULUM DEVELOPMENT; AND, 3) THE SIMULTANEOUS DEVELOPMENT OF POPULATION EDUCATION IN MANY PARTS OF THE WORLD, WITH THE EVIDENT NEED FOR MEANS FOR SHARING EXPERIENCES. (AUTHOR/JLB)

INSTITUTION NAME: COLUMBIA UNIV., NEW YORK, N.Y. TEACHERS COLLEGE.

ACCESSION NUMBERS: ED055940 SO001859

PUBLICATION DATE: 70

TITLE: A TEACHER GUIDE FOR THE COURSE: "TOWARD THE YEAR 2000" (A MULTI-DISCIPLINARY APPROACH).

PERSONAL AUTHOR: BUCHANAN, JOHN; AND OTHERS

INSTITUTION CODE: BBB00307

SPONSORING AGENCY CODE: EGK57295

DESCRIPTOR: CITY PROBLEMS; COMMUNICATION SKILLS; COMPUTER ASSISTED INSTRUCTION; DECISION MAKING SKILLS; *ENVIRONMENTAL EDUCATION; HUMAN GEOGRAPHY; INSTRUCTIONAL MATERIALS; *INTERDISCIPLINARY APPROACH; *PROBLEM SOLVING; SECONDARY GRADES; SIMULATION; *SOCIAL PLANNING; SOCIAL PROBLEMS; SOCIAL STUDIES UNITS; TEACHING GUIDES; *TEAM TEACHING; TECHNOLOGICAL ADVANCEMENT

IDENTIFIER: *FUTUROLOGY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 178P.

ISSUE: RIEFEB72

THIS GUIDE WAS DEVELOPED JOINTLY BY MEMBERS FROM THE DEPARTMENTS OF SOCIAL STUDIES, MATHEMATICS, ENGLISH, AND SCIENCE. IT SETS FORTH THE METHODS, MATERIALS AND PROCEDURES OF OPERATION FOR THE INTERDISCIPLINARY TEACHING OF THIS COURSE. THE OVERALL OBJECTIVES OF THE COURSE ARE: 1) TO TEACH THE ELEMENTS AND PROCESS OF DECISION-MAKING; 2) TO IMPROVE THE PROCESS OF COMMUNICATION; 3) TO DEVELOP AN AWARENESS OF THE INTERACTION BETWEEN SOCIETY AND TECHNOLOGY; AND, 4) TO DEVELOP AN AWARENESS OF THE PRESENT LEVEL OF TECHNOLOGY AND THE DIRECTIONS TECHNOLOGY MAY TAKE IN THE FUTURE. STUDENT CENTERED PROBLEM SOLVING GROUPS WILL DEAL WITH RELEVANT REAL LIFE SITUATIONS. SMALL, MEDIUM, AND LARGE GROUPS WILL BE RANDOMLY SELECTED AND FLEXIBLY SCHEDULED. THE UNITS ARE: ELEMENTS OF DECISION-MAKING; COMMUNICATIONS; NATION BUILDING; INTERNATIONAL SIMULATION INCLUDING COMPUTER INSTRUCTION; THE ENVIRONMENTAL CRISIS; LABOR VS. MANAGEMENT; AND, MAJOR URBAN PROBLEMS. (AUTHOR/SBE)

INSTITUTION NAME: CHERRY CREEK HIGH SCHOOL, ENGLEWOOD, COLO.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED055937 SO001837

PUBLICATION DATE: 71

TITLE: ENVIRONMENTAL-ECOLOGICAL EDUCATION: A BIBLIOGRAPHY OF FICTION, NONFICTION, AND TEXTBOOKS FOR ELEMENTARY AND SECONDARY SCHOOLS.

PERSONAL AUTHOR: WATT, LOIS B., COMP.; THOMAS, MYRA H., COMP.

INSTITUTION CODE: BBB04086

SPONSORING AGENCY CODE: BBB05520

DESCRIPTOR: ANNOTATED BIBLIOGRAPHIES; BOOKS; *CHILDRENS BOOKS; *CONSERVATION EDUCATION; *ECOLOGY; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; FANTASY; FICTION; NATURAL RESOURCES; NATURAL SCIENCES; RESOURCE GUIDES; SECONDARY GRADES; *SOCIAL STUDIES; SUPPLEMENTARY READING MATERIALS; TEXTBOOKS

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 36P.

ISSUE: RIEFEB72

THIS BIBLIOGRAPHY OF JUVENILE LITERATURE, TEXTBOOKS, AND PROFESSIONAL RESOURCES FOR TEACHERS IS BASED ON ACQUISITIONS RECEIVED BETWEEN JANUARY 1ST 1969 AND MAY 25 1971 BY THE EDUCATIONAL MATERIALS CENTER OF THE NATIONAL CENTER FOR EDUCATIONAL COMMUNICATION. THE BOOKS ANNOTATED WITHIN HAVE NOT BEEN EVALUATED, HOWEVER, THEY HAVE BEEN SELECTED ON THE BASIS OF THREE CRITERIA: 1) PUBLICATION DURING THIS PERIOD; 2) CRITICAL RECEPTION OR FAVORABLE REVIEW BY AT LEAST TWO PROFESSIONAL JOURNALS; AND, 3) ECOLOGICAL CONTENT. THE NONFICTION JUVENILE TITLES IN THE FIRST TWO SECTIONS DIVIDE AROUND THREE THEMES: 1) THE PROBLEMS ENDANGERED SPECIES OF ANIMALS AND PLANTS, OVERPOPULATION, HUNGER, POLLUTION; 2) THE NATURAL RESOURCES AVAILABLE AND THEIR UTILIZATION AS THE BASIS OF THE SOLUTION OF THE PROBLEMS; AND, 3) SURVEYS OF WHAT HAS BEEN DONE IN RECENT YEARS TO REPAIR THE ECOLOGICAL DAMAGE. BIOGRAPHIES, ANIMAL STORIES, AND CONSERVATION AND ECOLOGY PICTURE BOOKS ARE INCLUDED IN THE SECOND SECTION. THE NEXT PART DESCRIBES FIFTEEN JUVENILE FICTION BOOKS ABOUT ENCOUNTERS BETWEEN ANIMALS AND PEOPLE, IMAGINED OR FICTIONAL, BUT RELEVANT TO EVERYDAY HAPPENINGS; SOME ARE FANTASTIC IN NATURE. SCIENCE AND SOCIAL STUDIES TEXTS ARE LISTED IN THE FOURTH SECTION WITH TEACHER RESOURCES IN THE FIFTH. THE REVIEW SOURCES, AND AUTHOR AND TITLE INDICES ARE APPENDED. (AUTHOR/SBE)

REPORT NUMBER: REFS-5

INSTITUTION NAME: ERIC CLEARINGHOUSE FOR SOCIAL STUDIES/SOCIAL SCIENCE EDUCATION, BOULDER, COLO.

SPONSORING AGENCY NAME: NATIONAL CENTER FOR EDUCATIONAL COMMUNICATION (DHEW/OE), WASHINGTON, D.C. EDUCATIONAL MATERIALS CENTER.

ACCESSION NUMBERS: ED055919 SE012634

PUBLICATION DATE: 71

TITLE: A SUPPLEMENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION, LANGUAGE ARTS, GRADES K THROUGH 12.

PERSONAL AUTHOR: WARPINSKI, ROBERT

INSTITUTION CODE: BBB05582

DESCRIPTOR: BEHAVIORAL OBJECTIVES; *ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; FUNDAMENTAL CONCEPTS; INSTRUCTIONAL MATERIALS; *LANGUAGE ARTS; LEARNING ACTIVITIES; LESSON PLANS; *SECONDARY GRADES; *TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$13.16

DESCRIPTIVE NOTE: 376P.

ISSUE: RIEFEB72

PRESENTED IN THESE 13 TEACHER'S GUIDES FOR GRADES K-12 ARE LESSON PLANS AND IDEAS FOR INTEGRATING LANGUAGE ARTS AND ENVIRONMENTAL EDUCATION. EACH LESSON ORIGINATES WITH A FUNDAMENTAL CONCEPT PERTAINING TO THE ENVIRONMENT AND STATES, IN ADDITION, ITS DISCIPLINE AREA, SUBJECT AREA, AND PROBLEM ORIENTATION. FOLLOWING THIS, BEHAVIORAL OBJECTIVES AND SUGGESTED LEARNING EXPERIENCES ARE OUTLINES. BEHAVIORAL OBJECTIVES INCLUDE COGNITIVE AND AFFECTIVE OBJECTIVES AND SKILLS TO BE LEARNED, WHILE LEARNING EXPERIENCES LIST STUDENT-CENTERED IN CLASS ACTIVITIES AND OUTSIDE RESOURCE AND COMMUNITY ACTIVITIES. SPACE IS PROVIDED FOR TEACHERS TO NOTE RESOURCE AND REFERENCE MATERIALS--PUBLICATIONS, AUDIO-VISUAL AIDS, AND COMMUNITY RESOURCES. THE GUIDES ARE SUPPLEMENTARY IN NATURE AND THE LESSONS OR EPISODES ARE DESIGNED TO BE PLACED IN EXISTING COURSE CONTENT AT APPROPRIATE TIMES. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BL)

INSTITUTION NAME: PROJECT I-C-E, GREEN BAY, WIS.

ACCESSION NUMBERS: ED055918 SE012633

PUBLICATION DATE: 71

TITLE: A SUPPLEMENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION, SCIENCE, GRADES K THROUGH 12.

PERSONAL AUTHOR: WARPINSKI, ROBERT

INSTITUTION CODE: BBB05582

DESCRIPTOR: BEHAVIORAL OBJECTIVES; *ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; FUNDAMENTAL CONCEPTS; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; LESSON PLANS; *SCIENCE EDUCATION; *SECONDARY GRADES; *TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$16.45

DESCRIPTIVE NOTE: 429P.

ISSUE: RIEFEB72

PRESENTED IN THESE 13 TEACHER'S GUIDES FOR GRADES K-12 ARE LESSON PLANS AND IDEAS FOR INTEGRATING SCIENCE AND ENVIRONMENTAL EDUCATION. EACH LESSON ORIGINATES WITH A FUNDAMENTAL CONCEPT PERTAINING TO THE ENVIRONMENT AND STATES, IN ADDITION, ITS DISCIPLINE AREA, SUBJECT AREA, AND PROBLEM ORIENTATION. FOLLOWING THIS, BEHAVIORAL OBJECTIVES AND SUGGESTED LEARNING EXPERIENCES ARE OUTLINED. BEHAVIORAL OBJECTIVES INCLUDE COGNITIVE AND AFFECTIVE OBJECTIVES AND SKILLS TO BE LEARNED, WHILE LEARNING EXPERIENCES LIST STUDENT-CENTERED IN CLASS ACTIVITIES AND OUTSIDE RESOURCE AND COMMUNITY ACTIVITIES. SPACE IS PROVIDED FOR TEACHERS TO NOTE RESOURCE AND REFERENCE MATERIALS--PUBLICATIONS, AUDIO-VISUAL AIDS, AND COMMUNITY RESOURCES. THE GUIDES ARE SUPPLEMENTARY IN NATURE AND THE LESSONS OR EPISODES ARE DESIGNED TO BE PLACED IN EXISTING COURSE CONTENT AT APPROPRIATE TIMES. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BL)

INSTITUTION NAME: PROJECT I-C-E, GREEN BAY, WIS.

ACCESSION NUMBERS: ED055917 SE012632

PUBLICATION DATE: 71

TITLE: A SUPPLEMENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION, SOCIAL STUDIES, GRADES 1 THROUGH 12.

PERSONAL AUTHOR: WARPINSKI, ROBERT

INSTITUTION CODE: BBB05582

DESCRIPTOR: BEHAVIORAL OBJECTIVES; *ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; FUNDAMENTAL CONCEPTS; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; LESSON PLANS; *SECONDARY GRADES; *SOCIAL STUDIES; *TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$13.16

DESCRIPTIVE NOTE: 379P.

ISSUE: RIEFEB72

PRESENTED IN THESE 12 TEACHER'S GUIDES FOR GRADES 1-12 ARE LESSON PLANS AND IDEAS FOR INTEGRATING SOCIAL STUDIES AND ENVIRONMENTAL EDUCATION. EACH LESSON ORIGINATES WITH A FUNDAMENTAL CONCEPT PERTAINING TO THE ENVIRONMENT AND STATES, IN ADDITION, ITS DISCIPLINE AREA, SUBJECT AREA, AND PROBLEM ORIENTATION. FOLLOWING THIS, BEHAVIORAL OBJECTIVES AND SUGGESTED LEARNING EXPERIENCES ARE OUTLINED. BEHAVIORAL OBJECTIVES INCLUDE COGNITIVE AND AFFECTIVE OBJECTIVES AND SKILLS TO BE LEARNED, WHILE LEARNING EXPERIENCES LIST STUDENT-CENTERED IN CLASS ACTIVITIES AND OUTSIDE RESOURCE AND COMMUNITY ACTIVITIES. SPACE IS PROVIDED FOR TEACHERS TO NOTE RESOURCE AND REFERENCE MATERIALS--PUBLICATIONS, AUDIO-VISUAL AIDS, AND COMMUNITY RESOURCES. THE GUIDES ARE SUPPLEMENTARY IN NATURE AND THE LESSONS OR EPISODES ARE DESIGNED TO BE PLACED IN EXISTING COURSE CONTENT AT APPROPRIATE TIMES. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BL)

INSTITUTION NAME: PROJECT I-C-E, GREEN BAY, WIS.

ACCESSION NUMBERS: ED055907 SE012614

PROGRAM AREA: 24

PUBLICATION DATE: 31 AUG 70

TITLE: A FILMED PRESENTATION OF ECOLOGICAL PRINCIPLES. FINAL REPORT.

PERSONAL AUTHOR: ROBINSON, GERALD G.: NELSON, GID E.

INSTITUTION CODE: HWP89175

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: AUDIOVISUAL AIDS; BIOLOGY; *ECOLOGY; ENVIRONMENTAL EDUCATION; *HIGHER EDUCATION; *INSTRUCTIONAL FILMS; NATURAL RESOURCES; *REPORTS; *SCIENCE EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 6P.

ISSUE: RIEFEB72

PROCEDURES IN DEVELOPING A 66-MINUTE FILM ENTITLED "NATURAL COMMUNITIES OF FLORIDA: PHYSICAL FACTORS AND DISTRIBUTION" AND PRESENTED IN THIS SUMMARY REPORT. PRODUCTION OF THE FILM WAS UNDERTAKEN IN AN ATTEMPT TO PROVIDE A MORE EFFECTIVE MEANS OF PRESENTING BASIC ECOLOGICAL PRINCIPLES TO STUDENTS IN INTRODUCTORY, COLLEGE LEVEL BIOLOGY COURSES. THE REPORT SUMMARIZES THE SITUATION OF THE BIOLOGY COURSES OFFERED AT THE UNIVERSITY OF SOUTH FLORIDA; THE VALUE OF INCLUDING ECOLOGICAL PRINCIPLES IN BIOLOGY COURSES; AND THE NEED FOR DEVELOPING A RELEVANT FILM FOR THESE COURSES. TO THIS END, THE FILM PRODUCED EXAMINES SIX MAJOR NATRAL COMMUNITIES FOUND IN FLORIDA: PINE FLATWOODS, SANDHILL ASSOCIATION, SAND PINE SCRUB, HARDWOOD HAMMOCKS, COASTAL STRAND, AND THE EVERGLADES. DEPICTED IN EACH COMMUNITY IS THE GENERAL APPEARANCE, IMPORTANT VEGETATION, THE SOIL, AND SOME OF THE INTERRELATIONSHIPS BETWEEN ANIMALS AND PLANTS. ALSO, THE EFFECTS OF IMPORTANT PHYSICAL FACTORS ARE ILLUSTRATED. IN CONCLUSION, THE REPORT DISCUSSES RESULTS IN CLASS USE OF THE FILM. (BL)

GRANT NUMBER: OEG-4-8-070022-0006-057

BUREAU NUMBER: BR-7-D-022

INSTITUTION NAME: UNIVERSITY OF SOUTH FLORIDA, TAMPA.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBERS: ED055894 SE012598

PUBLICATION DATE: 15 AUG 71

TITLE: ENVIRONMENT INFORMATION ACCESS, VOLUME 1 NUMBERS 13 AND 14.

INSTITUTION CODE: BBB05546

DESCRIPTOR: *ABSTRACTS; *ENVIRONMENT; *INDEXES (LOCATERS); INFORMATION DISSEMINATION; *INFORMATION SCIENCE; NATURAL RESOURCES; PERIODICALS; *POLLUTION; RESOURCE MATERIALS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 65P.

ISSUE: RIEFEB72

ACCESS IS AN INDEXING, ABSTRACTING, AND INFORMATION RETRIEVAL SERVICE THAT COVERS PUBLISHED AND NON-PRINT INFORMATION ON ENVIRONMENTAL POLLUTION, CONSERVATION, AND RELATED FIELDS. IT PROVIDES AN OVERVIEW OF THE ENVIRONMENTAL REPORTING OF MORE THAN 1000 SCHOLARLY, SCIENTIFIC, INDUSTRIAL, TECHNICAL, AND GENERAL PERIODICALS AND MAJOR NEWSPAPERS; IMPORTANT ENVIRONMENTAL RADIO AND TELEVISION PROGRAMMING, FILMS AND FILMSTRIPS, BOOKS, CORPORATE PUBLICATIONS, AND MAJOR CONFERENCE PUBLICATIONS. INTRODUCTORY PAGES EXPLAIN THE ACCESS SYSTEM, THE ECOLOGY FORUM, AND SIGNIFICANT INFORMATION APPEARING IN THE ISSUE. THE MAIN ENTRY SECTION CONTAINS DOCUMENT ABSTRACTS RELATED TO: AIR POLLUTION, CHEMICAL AND BIOLOGICAL CONTAMINATION, ENERGY, ENVIRONMENTAL ACTION, ENVIRONMENTAL DESIGN, FOOD, INTERNATIONAL ASPECTS, LAND USE AND MISUSE, NOISE POLLUTION, NON-RENEWABLE RESOURCES, OCEANS AND ESTUARIES, POPULATION PLANNING AND CONTROL, RADIOLOGICAL CONTAMINATION, RECREATION, RENEWABLE RESOURCES, SOLID WASTES, TRANSPORTATION, WATER POLLUTION, WEATHER MODIFICATION AND GEOGRAPHICAL CHANGE, AND WILDLIFE. A SPECIAL SECTION INCLUDES RESEARCH ACTIVITIES RELATED TO AIR POLLUTION; CURRENT CONFERENCES; AND SUBJECT, INDUSTRY, AND AUTHOR INDEXES. (BB)

AVAILABILITY: ENVIRONMENT INFORMATION CENTER, INC., SUITE 303 EAST, 200 PARK AVENUE, NEW YORK, NEW YORK 10017

INSTITUTION NAME: ENVIRONMENT INFORMATION CENTER, NEW YORK, N.Y.

ACCESSION NUMBERS: ED055888 SE012581

PUBLICATION DATE: 71

TITLE: ECOLOGY AT HOME. HOW YOUR HOUSEKEEPING HABITS CAN HELP SAVE OUR ENVIRONMENT.

PERSONAL AUTHOR: KILLEEN, JACQUELINE

DESCRIPTOR: *ECOLOGY; *ENVIRONMENTAL EDUCATION; HOME ECONOMICS; NATURAL RESOURCES; PAPERBACK BOOKS; *POLLUTION; RESOURCE MATERIALS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 96P.

ISSUE: RIEFEB72

THIS BOOKLET DESCRIBES COMMON HOUSEHOLD HABITS WHICH CAN BE ALTERED TO REDUCE MAN'S PRESSURE UPON THE ENVIRONMENT. IDEAS RANGE FROM CONSERVING COOKING FUEL BY USING A CHINESE STEAMER TO TURNING OLD STOCKINGS INTO RUGS. ALSO INCLUDED IS INFORMATION ON NATIONAL RECYCLING PROGRAMS, MAKING GIFTS FROM GARBAGE, ORGANIC GARDENING, COOKING WITHOUT POISONS, NATURAL HOUSEHOLD REMEDIES FOR REMOVING STAINS AND ELIMINATING PESTS, A PET DIET OF FRESH FOODS, RELAXING WITHOUT TAXING THE ENVIRONMENT, AND A WATTAGE GUIDE TO SAVING ELECTRICITY. IT IS WELL ILLUSTRATED WITH NATURE SKETCHES. (AUTHOR/CP)

AVAILABILITY: 101 PRODUCTIONS, 79 LIBERTY STREET, SAN FRANCISCO, CALIFORNIA 94110 ($1.95)

ACCESSION NUMBERS: ED055830 SE012553

PUBLICATION DATE: 71

TITLE: PROCESS FOR A QUALITY ENVIRONMENT.

PERSONAL AUTHOR: COOK, ROBERT S., ED.; O'HEARN, GEORGE T., ED.

INSTITUTION CODE: BBB02866

DESCRIPTOR: CONFERENCE REPORTS; *CURRICULUM DEVELOPMENT; *ENVIRONMENTAL EDUCATION; *FUNDAMENTAL CONCEPTS; PROGRAM DESCRIPTIONS; PSYCHOLOGY; *VALUES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 166P.

ISSUE: RIEFEB72

PAPERS PRESENTED AT THE NATIONAL CONFERENCE ON ENVIRONMENTAL EDUCATION, DECEMBER 1969, AND DIGESTS OF THE DISCUSSION GROUP REPORTS ARE INCLUDED IN THIS CONFERENCE REPORT. THE PAPERS EXAMINE THE IDENTIFICATION OF MAJOR ECOLOGICAL CONCEPTS AND VALUES APPROPRIATE TO SCHOOL CURRICULA (KINDERGARTEN TO GRADE 12), METHODS BY WHICH ENVIRONMENTAL CONCEPTS CAN BE INTEGRATED INTO REGULAR CURRICULAR CONTENT, FORMATION OF ENVIRONMENTAL VALUES, PSYCHOLOGICAL BEHAVIOR, AND ENVIRONMENTAL EDUCATION. FOUR EXISTING PROGRAMS ARE DESCRIBED. THE ROLE OF THE U. S. OFFICE OF EDUCATION AND OF ERIC IN ENVIRONMENTAL EDUCATION IS ALSO DISCUSSED. (AL)

AVAILABILITY: OFFICE OF COMMUNITY OUTREACH, UNIVERSITY OF WISCONSIN, GREEN BAY, WISCONSIN 54302 ($2.50)

INSTITUTION NAME: WISCONSIN UNIV., GREEN BAY.

ACCESSION NUMBERS: ED055872 SE012539

PUBLICATION DATE: 71

TITLE: NATURE STUDY FOR CONSERVATION. A HANDBOOK FOR ENVIRONMENTAL EDUCATION.

PERSONAL AUTHOR: BRAINERD, JOHN W.

DESCRIPTOR: BIOLOGY; *CONSERVATION EDUCATION; *ECOLOGY; ENVIRONMENTAL EDUCATION; *GUIDES; LEARNING ACTIVITIES; *NATURAL RESOURCES; NATURAL SCIENCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 352P.

ISSUE: RIEFEB72

THIS BOOK IS WRITTEN FOR THE PERSON WHO WISHES TO STUDY NATURE WITH A GOAL TOWARD INVOLVING HIMSELF IN CONSERVATION ACTION. IT DOES NOT EXPLAIN WHAT ONE MUST DO IN THIS REGARD, RATHER, IT SUGGESTS FIRST HAND EXPERIENCES AND PROVIDES KNOWLEDGE ON WHICH TO BASE HIS DECISIONS. PART ONE, CONCEPTS, DEALS BRIEFLY WITH ECOLOGICAL THOUGHT BASIC TO CONSERVATION. IN ADDITION, BIOLOGICAL STUDIES OUTDOORS ARE DEFINED AND ENCOURAGED AND LAND REQUIREMENTS FOR STUDYING LIFE ARE DETAILED. PART TWO, TECHNIQUES, FORMS THE BULK OF THE BOOK. IT STRESSES METHODS OF OBSERVING, IDENTIFYING, COLLECTING, ANALYZING, EXPERIMENTING, RECORDING, AND FILING DATA RELATIVE TO ENVIRONMENTAL COMPONENTS OF NATURAL SYSTEMS. EMPHASIS IS ON WHAT AN INDIVIDUAL CAN FIND OUT ABOUT NATURE WITH LITTLE OR NO FANCY EQUIPMENT. PART THREE, RESPONSIBILITIES, GIVES ATTENTION TO METHODS OF PROTECTING LAND, WITH A CHAPTER ON WISE USE OF CAMPUS AND SCHOOLGROUNDS FOR ENVIRONMENTAL EDUCATION. NUMEROUS PICTURES, DRAWINGS, AND CHARTS FURTHER ILLUSTRATE CONSERVATION COMPONENTS. AN EXTENSIVE BIBLIOGRAPHY FOR EACH CHAPTER IS APPENDED. (BL)

AVAILABILITY: MACMILLAN COMPANY, 866 THIRD AVENUE, NEW YORK, NEW YORK 10022

ACCESSION NUMBERS: ED055871 SE012535

PUBLICATION DATE: 5 APR 71

TITLE: ENVIRONMENTAL EDUCATION.

PERSONAL AUTHOR: FALKENSTEIN, W. J.

INSTITUTION CODE: BBB05580

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; *NATURAL RESOURCES; OUTDOOR EDUCATION; RESOURCE MATERIALS; *STUDY CENTERS; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 13P.

ISSUE: RIEFEB72

TO ASSIST TEACHERS IN KNOWING ABOUT ENVIRONMENTAL STUDY AND THEIR AVAILABILITY FOR CLASS STUDIES, THE WEST LINN, OREGON SCHOOL DISTRICT #3 HAS DEVELOPED THIS "FIRST STEP" SURVEY. INFORMATION FOR EACH LOCAL STUDY AREA DESCRIBES ITS HISTORY, GENERAL PHYSICAL APPEARANCE, VEGETATION, WILDLIFE, SPECIAL FEATURES, PRESENT PHYSICAL DEVELOPMENT, SEASONAL VARIATIONS, AND NATURAL HAZARDS. IN ADDITION, SUPPLEMENTAL INFORMATION FOR TEACHERS REGARDING GROUP SIZE AND SUGGESTED USAGE OF THE AREA IS INCLUDED. (BL)

INSTITUTION NAME: WEST LINN SCHOOL DISTRICT 3, OREG.

ACCESSION NUMBERS: ED055865 SE012496

PUBLICATION DATE: SEP 71

TITLE: SCIENCE FOR SOCIETY--EDUCATION REVIEW, VOLUME 1 NUMBER 3.

INSTITUTION CODE: BBB02124

DESCRIPTOR: CURRICULUM DEVELOPMENT; EDUCATIONAL PROGRAMS; *ENVIRONMENTAL EDUCATION; NEWSLETTERS; *ORGANIZATIONS (GROUPS); *PROGRAM DESCRIPTIONS; *PROJECTS; TEACHER EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 12P.

ISSUE: RIEFEB72

ADVANCES IN ENVIRONMENTAL EDUCATION BY PROFESSIONAL AND SCIENCE-ORIENTED ORGANIZATIONS ARE ENUMERATED IN THIS NEWSLETTER. AN EFFORT IS MADE TO DESCRIBE THE WORK BEING DONE BY LARGE AND REPRESENTATIVE GROUPS WHOSE HEADQUARTERS ARE NOT LOCATED IN THE NATION'S CAPITAL AND WHOSE PRINCIPLE CONCERNS INCLUDE CURRICULUM PLANNING AND PREPARATION OF TEACHERS FOR DIRECTING ENVIRONMENTAL STUDIES. SUMMARIES OF PROGRAM OBJECTIVES, ACTIVITIES, AND MATERIALS OF LARGE SCALE ENVIRONMENT-ORIENTED PROGRAMS ARE PROVIDED FOR: (1) ANTHROPOLOGY CURRICULUM PROJECT, UNIVERSITY OF GEORGIA, ATHENS; (2) BIOLOGICAL SCIENCES CURRICULUM STUDY (BSCS), UNIVERSITY OF COLORADO, BOULDER; (3) ENVIRONMENTAL STUDIES PROJECT, AMERICAN GEOLOGICAL INSTITUTE; (4) INTERMEDIATE SCIENCE CURRICULUM STUDY (ISCS), FLORIDA STATE UNIVERSITY, TALLAHASSEE; (5) SCIENCE CURRICULUM IMPROVEMENT STUDY (SCIS), UNIVERSITY OF CALIFORNIA, BERKELEY; AND (6) INSTITUTE FOR ENVIRONMENTAL EDUCATION, CLEVELAND, OHIO. SEVERAL LOCAL LEVEL PROGRAMS ARE ALSO REVIEWED. IN ADDITION, THE GROUP FOR ENVIRONMENTAL EDUCATION PROJECT, PHILADELPHIA, PENNSYLVANIA IS PORTRAYED AS IT RELATES TO THE SOCIAL STUDIES FIELD. (BL)

AVAILABILITY: AAAS, 1515 MASSACHUSETTS AVENUE, N.W., WASHINGTON, D.C. 20005

INSTITUTION NAME: AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, WASHINGTON, D.C. COMMISSION ON SCIENCE EDUCATION.

ACCESSION NUMBERS: ED055959 SE012486

PUBLICATION DATE: 71

TITLE: ADVENTURE IN ENVIRONMENT, OUTDOOR BOOK.

INSTITUTION CODE: BBB05083

DESCRIPTOR: ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; INTERDISCIPLINARY APPROACH; *INTERMEDIATE GRADES; *LEARNING ACTIVITIES; LESSON PLANS; OUTDOOR EDUCATION; STUDENT PROJECTS; *STUDY GUIDES

IDENTIFIER: NEED

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 54P.

ISSUE: RIEFEB72

PRESENTED IN THIS HANDBOOK ARE QUESTIONS AND IDEAS FOR STUDENTS TO CONSIDER WHILE STUDYING THEIR ENVIRONMENT OUT-OF-DOORS. DEVELOPED TO ACCOMPANY THE NATIONAL ENVIRONMENTAL EDUCATION DEVELOPMENT (NEED) PROGRAM, IT WAS WRITTEN TO HELP THE STUDENT LEARN TO LOOK AT FAMILIAR PLACES AND THINGS IN NEW WAYS. IT UTILIZES THE CONCEPT OF "STRAND" APPROACH OF VARIETY AND SIMILARITY, PATTERNS, INTERACTION AND INTERDEPENDENCE, CONTINUITY AND CHANGE, AND ADAPTATION AND EVOLUTION. STUDENTS ARE ENCOURAGED TO OBSERVE THESE PROCESSES OF ENVIRONMENT AS THEY OPERATE IN RELATIVELY NATURAL CONDITIONS AND, THUS, REALIZE THAT THESE PROCESSES ARE AT WORK THROUGHOUT THE WORLD. TEN LESSONS ARE INCLUDED TO OBSERVE AND INTERACT WITH THESE PROCESSES AND AR E ENTITLED: WATCHING THINGS CHANGE, EXPLORING ON HANDS AND KNEES, LOOKS AND FEELINGS, NATURE'S PATTERNS, TREE TEXTURES, IT'S NOT A BIRD BUT IT FLIES, HOW HIGH IS THAT?, TURNING AND PACING, FAST-SLOW-HIGH-LOW, AND HOW LONG AGO? IN ADDITION, GAMES ARE SUGGESTED TO ILLUSTRATE EACH OF THE FIVE STRANDS. SE 012 484 AND SE 012 485 ARE RELATED DOCUMENTS. (BL)

AVAILABILITY: SILVER BURDETT COMPANY, DIVISION OF GENERAL LEARNING CORP., MORRISTOWN, NEW JERSEY

INSTITUTION NAME: NATIONAL PARK FOUNDATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED055858 SE012485 62

PUBLICATION DATE: 71

TITLE: ADVENTURE IN ENVIRONMENT, TEACHER'S GUIDE

INSTITUTION CODE: BBB05083

DESCRIPTOR: CONCEPT FORMATION; *CURRICULUM DEVELOPMENT; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *INTERDISCIPLINARY APPROACH; *INTERMEDIATE GRADES; LESSON PLANS; RESOURCE UNITS; *TEACHING GUIDES

IDENTIFIER: NEED

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 30P.

ISSUE: RIEFEB72

LESSON PLANS AND TEACHING SUGGESTIONS FOR AN INTERDISCIPLINARY APPROACH TO ENVIRONMENTAL EDUCATION ARE PRESENTED IN THIS TEACHER'S GUIDE FOR USE IN THE NATIONAL ENVIRONMENTAL EDUCATION DEVELOPMENT (NEED) PROGRAM. THE PROGRAM ATTEMPTS TO ENCOURAGE A STUDENT TO DEVELOP AN AWARENESS OF HIS ENVIRONMENT THAT WILL LEAD TO A PERSONAL SENSE OF INVOLVEMENT AND THE SHAPING OF AN ENVIRONMENTAL ETHIC. THE APPROACH SUGGESTED IS THROUGH THE USE OF FIVE CONCEPTS OR "STRANDS" - VARIETY AND SIMILARITY, PATTERNS, INTERACTION AND INTERDEPENDENCE, CONTINUITY AND CHANGE, AND ADAPTATION AND EVOLUTION. THE OBJECT IS TO TEACH NOT THE STRANDS BUT THE FACT THAT THEY EXIST IN ALL LESSONS, ALL SITUATIONS. BY USE OF THE STRANDS, PARALLELS ARE DRAWN AND RELATIONSHIPS DEVELOPED, USING THE SUBJECT MATTER OF THE ENTIRE CURRICULUM TO ILLUSTRATE THE ONENESS OF ENVIRONMENT. STRAGEGIES EMPHASIZED IN THE LESSONS ARE CROSS-DISCIPLINE THINKING, USING EXPERIENCES OUTSIDE THE CLASSROOM, AND BRINGING THE OUTSIDE ENVIRONMENT INTO THE CLASSROOM ENVIRONMENT. EACH OF THE 21 LESSONS INCLUDES: ADVICE ON LESSON DEVELOPMENT, HOW THE STRANDS MAY BE INCORPORATED INTO THE LESSON, TEACHING SUGGESTIONS, ACTIVITIES FOR STUDENTS TO EXPLORE ENVIRONMENTAL PROBLEMS, AND QUESTIONS THAT MAY ARISE IN SOLVING THE PROBLEMS OR SHAPING ONE'S ENVIRONMENTAL ETHIC. SE 012 484 AND SE 012 486 ARE RELATED DOCUMENTS. (BL)

AVAILABILITY: SILVER BURDETT COMPANY, DIVISION OF GENERAL LEARNING CORP., MORRISTOWN, NEW JERSEY

INSTITUTION NAME: NATIONAL PARK FOUNDATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED055857 SE012494

PUBLICATION DATE: 71

TITLE: ADVENTURE IN ENVIRONMENT, STUDENT MANUAL.

INSTITUTION CODE: BBB05083

DESCRIPTOR: CONCEPT FORMATION; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *INTERDISCIPLINARY APPROACH; *INTERMEDIATE GRADES; LEARNING ACTIVITIES; STUDENT PROJECTS; *STUDY GUIDES

IDENTIFIER: NEED

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 86P.

ISSUE: RIEFEB72

TO MAKE STUDENTS AWARE OF THEIR ENVIRONMENT, THIS STUDENT STUDY MANUAL HAS BEEN PRODUCED TO ACCOMPANY THE NATIONAL ENVIRONMENTAL EDUCATION DEVELOPMENT (NEED) PROGRAM. IT IS A BOOK ABOUT THE WORLD, THE WAY IT WORKS AND THE WAY WE GET TO KNOW AND UNDERSTAND IT. MAN IS PORTRAYED AS A CENTRAL FIGURE, SURROUNDED BY HIS WORLD, THE ENVIRONMENT, WITH AWARENESS OF THE IMPACT OF HIS DECISIONS AND ACTIONS ON THE OVERALL ENVIRONMENT BEING STRESSED. FIVE CONCEPTS OR "STRANDS" ARE UTILIZED THROUGHOUT THE LESSONS TO SHOW HOW ALL THE DIFFERENT SUBJECTS ARE REALLY PART OF ONE BIG ENVIRONMENT. THESE STRANDS ARE EXPLAINED TO THE STUDENT AND INCLUDE: VARIETY AND SIMILARITY, PATTERNS, INTERACTION AND INTERDEPENDENCE, CONTINUITY AND CHANGE, AND ADAPTATION AND EVOLUTION. EACH LESSON PRESENTS A BASIC CONCEPT PERTAINING TO THE ENVIRONMENT, A DISCUSSION OF ENVIRONMENTAL SITUATIONS ACCOMPANIED BY NUMEROUS ILLUSTRATIONS AND PICTURES, PROBING QUESTIONS RELATED TO THESE SITUATIONS, ACTIVITIES TO EXPLORE ENVIRONMENTAL PROBLEMS, AND QUESTIONS, WHICH WHEN ANSWERED, HELP TO ILLUSTRATE ONE'S ENVIRONMENTAL BELIEFS. SE 012 485 AND SE 012 486 ARE RELATED DOCUMENTS. (BL)

AVAILABILITY: SILVER BURDETT COMPANY, DIVISION OF GENERAL LEARNING CORP., MORRISTOWN, NEW JERSEY

INSTITUTION NAME: NATIONAL PARK FOUNDATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED055956 SE012483

PUBLICATION DATE: 15 JUL 71

TITLE: ENVIRONMENT INFORMATION ACCESS, VOLUME 1 NUMBERS 11 AND 12.

INSTITUTION CODE: BBB05546

DESCRIPTOR: *ABSTRACTS; *ENVIRONMENT; *INDEXES (LOCATERS); INFORMATION DISSEMINATION; *INFORMATION SCIENCE; NATURAL RESOURCES; PERIODICALS; *POLLUTION; RESOURCE MATERIALS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 63P.

ISSUE: RIEFEB72

ACCESS IS AN INDEXING, ABSTRACTING, AND INFORMATION RETRIEVAL SERVICE THAT COVERS PUBLISHED AND NON-PRINT INFORMATION ON ENVIRONMENTAL POLLUTION, CONSERVATION, AND RELATED FIELDS. IT PROVIDES AN OVERVIEW OF THE ENVIRONMENTAL REPORTING OF MORE THAN 1000 SCHOLARLY, SCIENTIFIC, INDUSTRIAL, TECHNICAL, AND GENERAL PERIODICALS AND MAJOR NEWSPAPERS; IMPORTANT ENVIRONMENTAL RADIO AND TELEVISION PROGRAMMING, FILMS AND FILMSTRIPS, BOOKS, CORPORATE PUBLICATIONS, AND MAJOR CONFERENCE PUBLICATIONS. INTRODUCTORY PAGES EXPLAIN THE ACCESS SYSTEM, THE ECOLOGY FORUM, AND SIGNIFICANT INFORMATION APPEARING IN THE ISSUE. THE MAIN ENTRY SECTION CONTAINS DOCUMENT ABSTRACTS RELATED TO: AIR POLLUTION, CHEMICAL AND BIOLOGICAL CONTAMINATION, ENERGY, ENVIRONMENTAL ACTION, ENVIRONMENTAL DESIGN, FOOD, INTERNATIONAL ASPECTS, LAND USE AND MISUSE, NOISE POLLUTION, NON-RENEWABLE RESOURCES, OCEANS AND ESTUARIES, POPULATION PLANNING AND CONTROL, RADIOLOGICAL CONTAMINATION, RECREATION, RENEWABLE RESOURCES, SOLID WASTES, TRANSPORTATION, WATER POLLUTION, WEATHER MODIFICATION AND GEOGRAPHICAL CHANGE, AND WILDLIFE. A SPECIAL SECTION INCLUDES RESEARCH ACTIVITIES RELATED TO AIR POLLUTION; CURRENT CONFERENCES; AND SUBJECT, INDUSTRY, AND AUTHOR INDEXES. (BB)

AVAILABILITY: ENVIRONMENT INFORMATION CENTER, INC., SUITE 303 EAST, 200 PARK AVENUE, NEW YORK, NEW YORK 10017

INSTITUTION NAME: ENVIRONMENT INFORMATION CENTER, NEW YORK, N.Y.

ACCESSION NUMBERS: ED055855 SE012478

PUBLICATION DATE: AUG 71

TITLE: ECOSYSTEMS, TEACHER'S GUIDE.

INSTITUTION CODE: CIQ11450

DESCRIPTOR: *ECOLOGY; *ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; STUDENT PROJECTS; *TEACHING GUIDES; UNIT PLAN

IDENTIFIER: *SCIENCE CURRICULUM IMPROVEMENT STUDY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 105P.

ISSUE: RIEFEB72

THE SCIENCE CURRICULUM IMPROVEMENT STUDY HAS DEVELOPED THIS TEACHER'S GUIDE TO "ECOSYSTEMS," THE SIXTH PART OF A SIX UNIT LIFE SCIENCE CURRICULUM SEQUENCE. THE SIX BASIC UNITS, EMPHASIZING ORGANISM-ENVIRONMENT INTERACTIONS, ARE ORGANISMS, LIFE CYCLES, POPULATIONS, ENVIRONMENTS, COMMUNITIES, AND ECOSYSTEMS. THEY MAKE USE OF SCIENTIFIC AND PROCESS-ORIENTED CONCEPTS APPROPRIATE TO THE STUDY OF LIFE. ECOSYSTEMS DEVELOPS THE OVERALL CONCEPT OF AN ECOSYSTEM, A COMMUNITY OF ORGANISMS INTERACTING WITH ITS ENVIRONMENT. IT STRESSES, IN ADDITION, THE CONCEPTS OF POLLUTANT, WATER CYCLE, OXYGEN-CARBON DIOXIDE CYCLE, AND FOOD-MINERAL CYCLE. THIS UNIT SERVES AS A CULMINATION OF THE FIVE PRECEDING UNITS AND EXEMPLIFIES THE PROGRAM'S UNIFYING THEME - THE ECOSYSTEM. TOPICS OF THE FIVE-PART UNIT ARE ENTITLED: CLASSROOM ECOSYSTEMS, THE WATER CYCLE, THE OXYGEN-CARBON DIOXIDE CYCLE, CYCLES IN AN ECOSYSTEM, AND POLLUTION. SUGGESTIONS ARE PRESENTED FOR THE TEACHER TO USE AN EXPLORATION-INVENTION-DISCOVERY APPROACH TO LEARNING TOGETHER WITH POINTS TO CONSIDER REGARDING TEACHING MATERIALS, ADVANCE PREPARATION, AND OPTIONAL ACTIVITIES. ACTIVITIES AND EXPERIMENTS LEAD TO CLARIFICATION OF THE CONCEPTS AND PROVIDE EXPERIENCE IN MEASUREMENT SKILLS AND CRITICAL THINKING BY THE STUDENTS. (BL)

AVAILABILITY: RAND MCNALLY AND COMPANY (CHICAGO, NEW YORK, SAN FRANCISCO)

INSTITUTION NAME: CALIFORNIA UNIV., BERKELEY. SCIENCE CURRICULUM IMPROVEMENT STUDY.

ACCESSION NUMBERS: ED055850 SE012466

PUBLICATION DATE: JUL 71

TITLE: COMMUNITIES, TEACHER'S GUIDE.

INSTITUTION CODE: CI011450

DESCRIPTOR: BIOLOGY; *ECOLOGY; *ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; STUDENT PROJECTS; *TEACHING GUIDES; UNIT PLAN

IDENTIFIER: *SCIENCE CURRICULUM IMPROVEMENT STUDY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 112P.

ISSUE: RIEFEB72

THE SCIENCE CURRICULUM IMPROVEMENT STUDY HAS DEVELOPED THIS TEACHER'S GUIDE TO "COMMUNITIES," THE FIFTH PART OF A SIX UNIT LIFE SCIENCE CURRICULUM SEQUENCE. THE SIX BASIC UNITS, EMPHASIZING ORGANISM-ENVIRONMENT INTERACTIONS, ARE ORGANISMS, LIFE CYCLES, POPULATIONS, ENVIRONMENTS, COMMUNITIES, AND ECOSYSTEMS, AND MAKE USE OF SCIENTIFIC AND PROCESS-ORIENTED CONCEPTS APPROPRIATE TO THE STUDY OF LIFE. COMMUNITIES DEALS WITH THE FOOD-ENERGY RELATIONSHIPS AMONG POPULATIONS OF PLANTS AND ANIMALS LIVING IN THE SAME AREA AND STRESSES THE CONCEPTS OF PHOTOSYNTHESIS, FOOD TRANSFER AND/OR FOOD CHAINS, RAW MATERIALS, REPRODUCTION, AND COMMUNITY COMPOSITION. TOPICS OF THE FOUR-PART UNIT ARE ENTITLED: PRODUCERS, CONSUMERS, DECOMPOSERS, AND COMMUNITIES. SUGGESTIONS ARE PRESENTED FOR THE TEACHER TO USE AN EXPLORATION-INVENTION-DISCOVERY APPROACH TO LEARNING TOGETHER WITH POINTS TO CONSIDER REGARDING TEACHING MATERIALS, ADVANCE PREPARATION AND OPTIONAL ACTIVITIES. ACTIVITIES AND EXPERIMENTS LEAD TO CLARIFICATION OF THE CONCEPTS AND PROVIDE EXPERIENCE IN MEASUREMENT SKILLS AND CRITICAL THINKING BY THE STUDENTS. (BL)

AVAILABILITY: RAND MCNALLY AND COMPANY (CHICAGO, NEW YORK, SAN FRANCISCO)

INSTITUTION NAME: CALIFORNIA UNIV., BERKELEY. SCIENCE CURRICULUM IMPROVEMENT STUDY.

ACCESSION NUMBERS: ED055834 SE012380

PUBLICATION DATE: AUG 70

TITLE: A TOUR OF MUDFLAT TOWN.

PERSONAL AUTHOR: SCARFE, JUDITH M.

INSTITUTION CODE: QXM12435

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: ECOLOGY; ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; *GRADE 2; INSTRUCTIONAL MATERIALS; *OCEANOLOGY; *SUPPLEMENTARY READING MATERIALS

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 25P.

ISSUE: RIEFEB72

THIS PUBLICATION IS DESIGNED FOR USE AS PART OF A CURRICULUM SERIES DEVELOPED BY THE REGIONAL MARINE SCIENCE PROJECT. IT SERVES AS A SECOND GRADE SUPPLEMENTARY READING TEXT ABOUT THE MARINE ENVIRONMENT. READING MATERIAL CHARACTERIZES THE OCEAN, FRESH WATER AND SALT WATER, AND THE SEASHORE. AN ECOLOGICAL APPROACH TO NATURE IS EMPHASIZED, BY DESCRIBING ELEMENTS FOUND AT SEASHORES - WAVES, ANIMALS, PLANTS, GRASSES, AND ALGAE. NUMEROUS DRAWINGS SHOW THE PLANTS AND ANIMALS AND THEIR INTERRELATIONSHIPS WHERE APPROPRIATE. IN ADDITION, THE LINE DRAWINGS ALLOW STUDENTS TO COLOR IN ALL THE PICTURES IN THE BOOKLET. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BL)

INSTITUTION NAME: CARTERET COUNTY PUBLIC SCHOOLS, BEAUFORT, N.C.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED055833 SE012379

PUBLICATION DATE: 69

TITLE: THE REGIONAL MARINE SCIENCE PROJECT OF THE CARTERET COUNTY, NORTH CAROLINA, PUBLIC SCHOOLS. EXPERIMENTS IN THE USE OF FIELD ECOLOGY AS AN APPROACH TO UNDERSTANDING COASTAL ENVIRONMENTS.

PERSONAL AUTHOR: HON, WILL

INSTITUTION CODE: OXM12435

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: CURRICULUM DEVELOPMENT; ECOLOGY; ENVIRONMENTAL EDUCATION; *MARINE BIOLOGY; *PROGRAM DESCRIPTIONS; *PROJECTS; RESOURCE MATERIALS; *SECONDARY SCHOOL SCIENCE

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 36P.

ISSUE: RIEFEB72

THE DEVELOPMENT OF THE REGIONAL MARINE SCIENCE PROJECT IN CARTERET COUNTY, NORTH CAROLINA, IS PORTRAYED IN THIS BOOKLET. ESTABLISHED WITH ELEMENTARY AND SECONDARY EDUCATION ACT (ESEA) TITLE III FUNDS IN 1966, THE PROJECT HAS EVOLVED FROM ONE HIGH SCHOOL COURSE IN MARINE ECOLOGY TO NUMEROUS COURSES AND ACTIVITIES AT ALL LEVELS, PRIMARY THROUGH COLLEGE. ORIENTED TO FIELD ECOLOGY AS AN APPROACH TO UNDERSTANDING COASTAL ENVIRONMENTS, THE PROJECT MAKES EXTENSIVE USE OF FIELD TRIPS, SETTING UP DISCOVERY-TYPE SITUATIONS WITH COMPLEX PROBLEMS FOR GROUP INVESTIGATION. PHASES OF THE PROGRAM ARE DESCRIBED IN EIGHT CATEGORIES: CURRICULUM DEVELOPMENT AND INSTRUCTION, RESEARCH ON FIELD TRIP TECHNIQUES, INSERVICE TRAINING, SUMMER SCIENCE SCHOOL, MARINE SCIENCE LIBRARY AND AUDIO-VISUAL AIDS, PUBLICATIONS, REGIONAL COORDINATION OF MARINE SCIENCE EDUCATION, AND PLANNING FOR AN EXHIBIT, LABORATORY AND FIELD TRIP CENTER. AN ARRAY OF PICTURES DEPICT MANY OF THE STUDENT ACTIVITIES. IN ADDITION, STAFF PHOTOS AND BIOGRAPHIES ARE INCLUDED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BL)

INSTITUTION NAME: CARTERET COUNTY PUBLIC SCHOOLS, BEAUFORT, N.C.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED055828 SE012338

PUBLICATION DATE: FEB 71

TITLE: PROCEEDINGS OF SOUTH CAROLINA ENVIRONMENTAL EDUCATION CONFERENCE (HOBCAW HOUSE, GEORGETOWN, SOUTH CAROLINA, FEBRUARY 3-4, 1971).

INSTITUTION CODE: UZ080311

SPONSORING AGENCY CODE: BBB05450

DESCRIPTOR: *CONFERENCE REPORTS; CURRICULUM DEVELOPMENT; EDUCATIONAL PROGRAMS; *ENVIRONMENTAL EDUCATION; *TEACHER EDUCATION

IDENTIFIER: *SOUTH CAROLINA

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 89P.

ISSUE: RIEFEB72

THE SOUTH CAROLINA ENVIRONMENTAL EDUCATION CONFERENCE WAS HELD FEBRUARY 3 AND 4, 1971, AT HOBCAW HOUSE, GEORGETOWN, SOUTH CAROLINA. THE CONFERENCE WAS INTENDED TO PROVIDE A DIALOGUE BETWEEN TEACHER-TRAINING INSTITUTIONS, STATE DEPARTMENT OF EDUCATION PERSONNEL, AND OTHER STATE AGENCY PERSONNEL INTERESTED IN ENVIRONMENTAL EDUCATION. ONE AIM OF THE CONFERENCE WAS TO ENCOURAGE COLLEGE AND UNIVERSITY EDUCATION DEPARTMENTS TO INCORPORATE THE USE OF AVAILABLE ENVIRONMENTAL EDUCATION MATERIALS INTO THEIR CURRICULUMS. ADDRESSES, ACCOMPANIED BY RESULTING DISCUSSIONS AND SUGGESTIONS, ARE PRESENTED VERBATIM IN THIS REPORT. TOPICS INCLUDE: THE NEED FOR ENVIRONMENTAL EDUCATION AS AN INTEGRAL PART OF TEACHER EDUCATION; EXISTING TEACHER TRAINING PROGRAMS AND MATERIAL; FEDERAL PROGRAMS AS A SOURCE OF FUNDS; EXISTING MATERIALS FOR ENVIRONMENTAL EDUCATION; PRINCIPAL PARTS OF A MODEL PROGRAM; EMPLOYMENT OPPORTUNITIES; IMPLEMENTATION; AND EVALUATION OF ENVIRONMENTAL EDUCATION PROGRAMS. LISTS OF CONFERENCE MEMBERS, STAFF, AND ENVIRONMENTAL EDUCATION MATERIALS AVAILABLE FROM THE SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION ARE INCLUDED. (BL)

INSTITUTION NAME: SOUTH CAROLINA STATE DEPT. OF EDUCATION, COLUMBIA.

SPONSORING AGENCY NAME: BELLE W. BARUCH FOUNDATION, CLEMSON, S.C.

ACCESSION NUMBERS: ED055825 SE012322

PUBLICATION DATE: 15 MAY 71

TITLE: ENVIRONMENT INFORMATION ACCESS, VOLUME 1 NUMBER 8.

INSTITUTION CODE: BBB05546

DESCRIPTOR: *ABSTRACTS; *ENVIRONMENT; *INDEXES (LOCATERS); INFORMATION DISSEMINATION; *INFORMATION SCIENCE; NATURAL RESOURCES; PERIODICALS; *POLLUTION; RESOURCE MATERIALS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 76P.

ISSUE: RIEFEB72

ACCESS IS AN INDEXING, ABSTRACTING, AND INFORMATION RETRIEVAL SERVICE THAT COVERS PUBLISHED AND NON-PRINT INFORMATION ON ENVIRONMENTAL POLLUTION, CONSERVATION, AND RELATED FIELDS. IT PROVIDES AN OVERVIEW OF THE ENVIRONMENTAL REPORTING OF MORE THAN 1000 SCHOLARLY, SCIENTIFIC, INDUSTRIAL, TECHNICAL, AND GENERAL PERIODICALS AND MAJOR NEWSPAPERS; IMPORTANT ENVIRONMENTAL RADIO AND TELEVISION PROGRAMMING, FILMS AND FILMSTRIPS, BOOKS, CORPORATE PUBLICATIONS, AND MAJOR CONFERENCE PUBLICATIONS. INTRODUCTORY PAGES EXPLAIN THE ACCESS SYSTEM, THE ECOLOGY FORUM, AND SIGNIFICANT INFORMATION APPEARING IN THE ISSUE. THE MAIN ENTRY SECTION CONTAINS DOCUMENT ABSTRACTS RELATED TO: AIR POLLUTION, CHEMICAL AND BIOLOGICAL CONTAMINATION, ENERGY, ENVIRONMENTAL ACTION, ENVIRONMENTAL DESIGN, FOOD, INTERNATIONAL ASPECTS, LAND USE AND MISUSE, NOISE POLLUTION, NON-RENEWABLE RESOURCES, OCEANS AND ESTUARIES, POPULATION PLANNING AND CONTROL, RADIOLOGICAL CONTAMINATION, RECREATION, RENEWABLE RESOURCES, SOLID WASTES, TRANSPORTATION, WATER POLLUTION, WEATHER MODIFICATION AND GEOGRAPHICAL CHANGE, AND WILDLIFE. A SPECIAL SECTION INCLUDES A REVIEW OF RECENT BOOKS IN ENVIRONMENTAL AREAS; CURRENT CONFERENCES; AND SUBJECT, INDUSTRY, AND AUTHOR INDEXES. (BB)

AVAILABILITY: ENVIRONMENT INFORMATION CENTER, INC., SUITE 303 EAST, 200 PARK AVENUE, NEW YORK, NEW YORK 10017

INSTITUTION NAME: ENVIRONMENT INFORMATION CENTER, NEW YORK, N.Y.

ACCESSION NUMBERS: ED055817 SE012122

PUBLICATION DATE: 9 APR 71

TITLE: ENVIRONMENT INFORMATION ACCESS, VOLUME 1 NUMBER 6.

INSTITUTION CODE: BBB05546

DESCRIPTOR: *ABSTRACTS; *ENVIRONMENT; *INDEXES (LOCATERS); INFORMATION DISSEMINATION; *INFORMATION SCIENCE; NATURAL RESOURCES; PERIODICALS; *POLLUTION; RESOURCE MATERIALS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 70P.

ISSUE: RIEFEB72

ACCESS IS AN INDEXING, ABSTRACTING, AND INFORMATION RETRIEVAL SERVICE THAT COVERS PUBLISHED AND NON-PRINT INFORMATION ON ENVIRONMENTAL POLLUTION, CONSERVATION, AND RELATED FIELDS. IT PROVIDES AN OVERVIEW OF THE ENVIRONMENTAL REPORTING OF MORE THAN 1000 SCHOLARLY, SCIENTIFIC, INDUSTRIAL, TECHNICAL, AND GENERAL PERIODICALS AND MAJOR NEWSPAPERS; IMPORTANT ENVIRONMENTAL RADIO AND TELEVISION PROGRAMMING, FILMS AND FILMSTRIPS, BOOKS, CORPORATE PUBLICATIONS, AND MAJOR CONFERENCE PUBLICATIONS. INTRODUCTORY PAGES EXPLAIN THE ACCESS SYSTEM, THE ECOLOGY FORUM, AND SIGNIFICANT INFORMATION APPEARING IN THE ISSUE. THE MAIN ENTRY SECTION CONTAINS DOCUMENT ABSTRACTS RELATED TO: AIR POLLUTION, CHEMICAL AND BIOLOGICAL CONTAMINATION, ENERGY, ENVIRONMENTAL ACTION, ENVIRONMENTAL DESIGN, FOOD, INTERNATIONAL ASPECTS, LAND USE AND MISUSE, NOISE POLLUTION, NON-RENEWABLE RESOURCES, OCEANS AND ESTUARIES, POPULATION PLANNING AND CONTROL, RADIOLOGICAL CONTAMINATION, RECREATION, RENEWABLE RESOURCES, SOLID WASTES, TRANSPORTATION, WATER POLLUTION, WEATHER MODIFICATION AND GEOGRAPHICAL CHANGE, AND WILDLIFE. A SPECIAL SECTION INCLUDES A REVIEW AND PREVIEW OF NATIONAL NETWORK PROGRAMMING ON ENVIRONMENTAL ISSUES; A PERIODICAL LIST; CURRENT CONFERENCES; AND SUBJECT, INDUSTRY, AND AUTHOR INDEXES. (BB)

AVAILABILITY: ENVIRONMENT INFORMATION CENTER, INC., SUITE 303 EAST, 200 PARK AVENUE, NEW YORK, NEW YORK 10017

INSTITUTION NAME: ENVIRONMENT INFORMATION CENTER, NEW YORK, N.Y.

ACCESSION NUMBERS: ED055806 SE012071

PUBLICATION DATE: 69

TITLE: NUCLEAR POWER AND THE ENVIRONMENT, UNDERSTANDING THE ATOM SERIES.

INSTITUTION CODE: XIE04840

DESCRIPTOR: *ELECTRICITY; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *POLLUTION; *RADIATION; SECONDARY SCHOOL SCIENCE; THERMAL ENVIRONMENT

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 36P.

ISSUE: RIEFEB72

THIS BOOKLET IS ONE OF THE BOOKLETS IN THE "UNDERSTANDING THE ATOM SERIES" PUBLISHED BY THE U. S. ATOMIC ENERGY COMMISSION FOR HIGH SCHOOL SCIENCE TEACHERS AND THEIR STUDENTS. DISCUSSION CONCENTRATES ON THE RADIOLOGICAL AND THERMAL ASPECTS OF THE ENVIRONMENTAL EFFECTS OF NUCLEAR POWER PLANTS; ON THE PROCEDURES FOLLOWED BY THE ATOMIC ENERGY COMMISSION (AEC) TO MINIMIZE THE IMPACT OF NUCLEAR PLANTS ON MAN AND HIS ENVIRONMENT; AND ON THE RESEARCH CONDUCTED BY THE AEC AND OTHERS TO FURTHER EXPAND OUR KNOWLEDGE. NUMEROUS PHOTOGRAPHS AND DIAGRAMS ARE UTILIZED AND A LIST OF SUGGESTED REFERENCES IS INCLUDED. (AUTHOR/PR)

AVAILABILITY: USAEC, P. O. BOX 62, OAK RIDGE, TENNESSEE 37830 (FREE)

INSTITUTION NAME: ATOMIC ENERGY COMMISSION, OAK RIDGE, TENN. DIV. OF TECHNICAL INFORMATION.

ACCESSION NUMBERS: ED055712 RC005666

PUBLICATION DATE: 70

TITLE: TIPS AND TRICKS IN OUTDOOR EDUCATION. APPROACHES TO PROVIDING CHILDREN WITH EDUCATIONAL EXPERIENCES IN THE OUT-OF-DOORS.

PERSONAL AUTHOR: SWAN, MALCOLM D., ED.

DESCRIPTOR: COMMUNITY RESOURCES; *CONSERVATION EDUCATION; CREATIVE EXPRESSION; ECOLOGY; *FIELD TRIPS; INSTRUCTIONAL TRIPS; LEARNING ACTIVITIES; MAP SKILLS; MEASUREMENT; *OUTDOOR EDUCATION; RECREATION; *SCIENCE EDUCATION; *TEACHING GUIDES; TRAILS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 184P.

ISSUE: RIEFEB72

A REVISION OF THE LORADO TAFT FIELD CAMPUS' 1968 "INSTRUCTIONAL MATERIALS PACKET" ON PROVIDING CHILDREN WITH EDUCATIONAL EXPERIENCES OUTSIDE THE CLASSROOM, THIS BOOK CONTAINS MATERIALS, TIPS, WORKSHEETS, AND PLANS FOR OFFERING STUDENTS AN OPPORTUNITY FOR SUPPLEMENTARY OUTDOOR EXPERIENCES IN A VARIETY OF SUBJECT-MATTER AREAS: ANIMAL STUDIES, CREATIVE EXPRESSION, ECOLOGY, GEOLOGY AND SOILS, MAGNETIC COMPASSES, MEASUREMENT AND MAPPING, NATURE ARTS AND CRAFTS, PLANTS, OUTDOOR RECREATION, WATER, AND WEATHER. THE BOOK ALSO INCLUDES TIPS ON PLANNING AND CONDUCTING FIELD EXPERIENCES AND FOLLOW-UP ACTIVITIES. (BC)

AVAILABILITY: THE INTERSTATE PRINTERS & PUBLISHERS, INC., DANVILLE, ILLINOIS 61832 ($3.95)

ACCESSION NUMBERS: ED055702 RC005647

PROGRAM AREA: 24

PUBLICATION DATE: AUG 71

TITLE: OUTDOOR EDUCATION, A SELECTED BIBLIOGRAPHY. SUPPLEMENT NO. 1.

PERSONAL AUTHOR: ALTUS, DAVID M., COMP.

INSTITUTION CODE: QII59660

SPONSORING AGENCY CODE: BBB02778

DESCRIPTOR: ABSTRACTS; *BIBLIOGRAPHIES; *CONSERVATION EDUCATION; *ECOLOGY; EDUCATIONAL RESEARCH; INSTRUCTIONAL MATERIALS; *OUTDOOR EDUCATION; PROGRAM DESCRIPTIONS; *RECREATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$9.87

DESCRIPTIVE NOTE: 264P.

ISSUE: RIEFEB72

SOME 125 DOCUMENTS AND 217 JOURNAL ARTICLES PUBLISHED BETWEEN 1960 AND 1970 ARE CITED IN THIS BIBLIOGRAPHY ON OUTDOOR EDUCATION. PART I CONTAINS CITATIONS AND ABSTRACTS WHICH HAVE APPEARED IN "RESEARCH IN EDUCATION" FROM JANUARY 1970 THROUGH JULY 1971. PART II INCLUDES CITATIONS OF JOURNAL ARTICLES FROM "CURRENT INDEX TO JOURNALS IN EDUCATION" FROM THE FIRST ISSUE IN JANUARY 1969 THROUGH THE JULY 1971 ISSUE. IN ADDITION TO OUTDOOR EDUCATION, THE AREAS OF CONSERVATION EDUCATION, RECREATION, AND ECOLOGY ARE REPRESENTED IN THIS PUBLICATION. TYPES OF MATERIALS CITED INCLUDE RESEARCH REPORTS, DESCRIPTIONS OF PROGRAMS, AND MATERIALS FOR INSTRUCTIONAL USE. AN INDEX OF SUBJECT TERMS FACILITATES LOCATION OF DOCUMENTS IN A SPECIFIC SUBJECT AREA. ORDERING INFORMATION FOR ERIC MATERIALS IS PRESENTED. THIS BIBLIOGRAPHY IS THE FIRST IN A SERIES OF PLANNED SUPPLEMENTS TO ED 037 285. (JH)

CONTRACT NUMBER: OEC-1-6-062469-1547

BUREAU NUMBER: BR-6-2469

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NO. 1780-0832, $2.00)

INSTITUTION NAME: NEW MEXICO STATE UNIV., UNIVERSITY PARK. ERIC CLEARINGHOUSE ON RURAL EDUCATION AND SMALL SCHOOLS.

SPONSORING AGENCY NAME: NATIONAL CENTER FOR EDUCATIONAL RESEARCH AND DEVELOPMENT (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED055690 RC005593

PUBLICATION DATE: 69

TITLE: A TEACHER'S HANDBOOK FOR STUDY OUTSIDE THE CLASSROOM.

PERSONAL AUTHOR: BREHM, SHIRLEY A.

DESCRIPTOR: *COMMUNITY RESOURCES; EVALUATION; FIELD TRIPS; HUMAN RESOURCES; *LEARNING ACTIVITIES; NATURAL RESOURCES; *OUTDOOR EDUCATION; PARENT PARTICIPATION; *PROGRAM PLANNING; STUDENT TRANSPORTATION; *TEACHING GUIDES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 100P.

ISSUE: RIEFEB72

THE MANY RESOURCES FOR LEARNING THAT EXIST BEYOND THE CONFINES OF THE CLASSROOM PROVIDE OUTSTANDING OPPORTUNITIES TO EXTEND LEARNING FOR STUDENTS. THE MAJOR PURPOSE OF THIS BOOK IS TO HELP TEACHERS USE THESE RESOURCES. THE BOOK IS NOT A SERIES OF RECIPES FOR TAKING FIELD TRIPS BUT IS AN AID TO PLANNING. FOR A TEACHER INEXPERIENCED IN THE POSSIBILITIES FOR MEANINGFUL LEARNING OUTSIDE THE CLASSROOM, THE BOOK SPELLS OUT STEPS TO MAKE THIS LEARNING MOST WORTHWHILE. FOR THE EXPERIENCED TEACHER, THE BOOK AFFORDS A CHECKLIST OF PREPARATIONS AND FOLLOW-UP ACTIVITIES ESSENTIAL TO INTEGRATED, CONTINUOUS PLANNING FOR GOOD TEACHING. CHAPTER TITLES INCLUDE "TYPES OF INVESTIGATIONS OUTSIDE THE CLASSROOM," "PLANNING OUT-OF-CLASSROOM TEACHING," "TRANSPORTATION FOR THE FIELD TRIP," "PERMISSIONS AND PRECAUTIONS," AND "THE CONTRIBUTION OF RESOURCE PERSONNEL." POSSIBLE SITES FOR FIELD TRIPS AND THE MAJOR EDUCATIONAL CONCEPTS ASSOCIATED WITH EACH ARE LISTED. CLASSROOM FOLLOW-UP AND EVALUATION OF OUT-OF-CLASS STUDY ARE EMPHASIZED. (JH)

AVAILABILITY: CHARLES E. MERRILL PUBLISHING COMPANY, 1300 ALUM CREEK DRIVE, COLUMBUS, OHIO 43216 ($1.95 PLUS SHIPPING)

ACCESSION NUMBERS: ED055185 VT013809

PUBLICATION DATE: APR 70

TITLE: NEW INDUSTRIAL ARTS FOR THE SENIOR HIGH SCHOOL: A PROGRAM OF RELEVANCE IN A DYNAMIC AGE.

PERSONAL AUTHOR: MALEY, DONALD

INSTITUTION CODE: BBB04995

DESCRIPTOR: *CURRICULUM DEVELOPMENT; EDUCATIONAL CHANGE; ENVIRONMENTAL EDUCATION; *INDUSTRIAL ARTS; INDUSTRIAL EDUCATION; INSTITUTIONAL ROLE; *RELEVANCE (EDUCATION); *SENIOR HIGH SCHOOLS; SOCIAL PROBLEMS; TECHNOLOGICAL ADVANCEMENT; *TECHNOLOGY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 38P.; PRESENTATION AT THE AMERICAN INDUSTRIAL ARTS ASSOCIATION (LOUISVILLE, KY., APRIL 9, 1970)

ISSUE: RIEJAN72

TO BE MEANINGFUL IN THE MODERN WORLD, THE SENIOR HIGH SCHOOL INDUSTRIAL ARTS PROGRAM SHOULD EXPLORE THE APPLICATION OF TECHNOLOGY IN THE SOLUTION OF MAJOR SOCIAL, ENVIRONMENTAL, AND OPERATIONAL PROBLEMS THAT FACE MANKIND. THE CONTENT SHOULD BE RELEVANT FOR ALL STUDENTS AND INVOLVE THEM IN THE PROBLEMS OF THE PRESENT AND FUTURE. UNIVERSITY OF MARYLAND STAFF DEVELOPED GUIDELINES FOR THE DEVELOPMENT OF SUCH A PROGRAM, HIGHLIGHTING: (1) DEVELOPMENT OF THE INDIVIDUAL, (2) PROCESS ORIENTATION, (3) GREATER STUDENT INVOLVEMENT, (4) A BROAD PHYSICAL SETTING, I.E. SCHOOL, COMMUNITY, AND NATION, AND (5) CONTEMPORARY TEXTBOOK MATERIALS SUCH AS JOURNALS, MAGAZINES, AND NEWSPAPERS. SUCH A PROGRAM WOULD ATTRACT MORE STUDENTS AND DEVELOP IN THEM CONCERN AND KNOWLEDGE ABOUT THE FUTURE OF TECHNOLOGY IN SOCIETY AND ITS OCCUPATIONAL IMPLICATIONS. (CD)

INSTITUTION NAME: MARYLAND UNIV., COLLEGE PARK. DEPT. OF INDUSTRIAL EDUCATION.

ACCESSION NUMBERS: ED055021 SO001976

PUBLICATION DATE: SEP 71

TITLE: TEACH THE EARTH WHOLE.

PERSONAL AUTHOR: MCINNIS, NOEL F.

DESCRIPTOR: COGNITIVE OBJECTIVES; *CURRICULUM DEVELOPMENT; ECOLOGY; EDUCATIONAL OBJECTIVES; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; ESSAYS; HIGHER EDUCATION; *INTERDISCIPLINARY APPROACH; PROJECTS; RESOURCE GUIDES; SECONDARY GRADES; *SOCIAL STUDIES; SYNTHESIS; *SYSTEMS APPROACH

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 7P.

ISSUE: RIEJAN72

THE AUTHOR STATES THAT OUR PRESENT TEACHING METHODS TEND TO FOSTER A COMMON INTELLECTUAL SKILL: THINKING THE WORLD TO PIECES, AND THAT WHILE THIS SKILL IS VERY ESSENTIAL, IT IS ONLY HALF OF UNDERSTANDING. OUR PLANET FUNCTIONS NOT ACCORDING TO A PROGRAM OF TECHNOLOGICAL REDUCTIONISM, BUT AS A GESTALT, AND WE ARE IN DESPERATE NEED OF PERCEIVING IT THAT WAY AND BEHAVING ACCORDINGLY. THEREFORE, WE MUST DEVELOP A NEW CURRICULUM TO COMPLEMENT THE EXISTING ONE--A CURRICULUM FOR TEACHING THE EARTH WHOLE. A NUMBER OF PROGRAMS AND PROJECTS ARE EMERGING WHICH WILL ENABLE US TO DO THIS. THE AUTHOR BRIEFLY DESCRIBES SOME OF THESE EFFORTS: 1) THE MULTIDISCIPLINARY PROGRAM, TOTAL EDUCATI IN THE TOTAL ENVIRONMENT; 2) A SIMILAR PROJECT NOW UNDERWAY IN PUTNAM AND WESTCHESTER COUNTIES IN NEW YORK; 3) THE PROGRAM OF THE INSTITUTE FOR ENVIRONMENTAL EDUCATION IN OHIO; AND, 4) THE COLLEGE CURRICULUM MAN AND ENVIRONMENT. NAMES AND ADDRESSES OF THOSE TO CONTACT FOR FURTHER INFORMATION ABOUT EACH PROGRAM ARE PROVIDED. (AUTHOR/JLB)

ACCESSION NUMBERS: ED055020 SO001952

PUBLICATION DATE: JUN 71

TITLE: PROJECT CANADA WEST. FACE OF THE CITY: HOW TO LOOK AT YOUR URBAN WORLD.

INSTITUTION CODE: BBB04700

DESCRIPTOR: *ART EDUCATION; *CITY PLANNING; COMMUNITY STUDY; CONCEPT TEACHING; CURRICULUM DEVELOPMENT; DISCOVERY LEARNING; *ENVIRONMENTAL EDUCATION; INTERDISCIPLINARY APPROACH; LITERATURE REVIEWS; PROJECTS; SECONDARY GRADES; SEQUENTIAL PROGRAMS; *SOCIAL STUDIES; STUDENT RESEARCH; URBAN ENVIRONMENT; *URBAN STUDIES; VISUAL ARTS

IDENTIFIER: CANADA; *PROJECT CANADA WEST

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 37P.

ISSUE: RIEJAN72

THE BROAD AREA SELECTED BY THE CALGARY PROJECT WAS THE DEVELOPMENT OF A CURRICULUM ON URBAN AESTHETICS. DURING THEIR WORK IN 1970-71, THEY CONCLUDED THAT THE BEST WAY TO DEVELOP VISUAL AWARENESS WAS THROUGH THE CONCEPTUAL DEVELOPMENT OF THE VISUAL COMPONENTS OR THE IMAGES AND ELEMENTS OF DESIGN IN TERMS OF HUMAN VALUES OF URBAN AREAS. THE MODULAR UNITS WILL BE ENTITLED: 1) PORTALS: POINTS OF ACCESS; 2) SKYLINE AND PROFILE; 3) FOCAL POINT AND LANDMARKS; 4) NODES: STRATEGIC POINTS, GATHERING PLACES; 5) PATHWAYS: STREETS, RIVERS, RAILROADS; 6) EDGES AND ENTITIES: CITY SEGMENTS; AND, 7) AURA AND PULSE: TOTAL SENSUAL IMPRESSIONS. THE ELEMENTS OF DESIGN ARE: SCALE, COLOR, LINE, FORM, TEXTURE, AND MOTION. THE TOTAL PROGRAM COULD RANGE FROM FIVE TO TEN MONTHS. THE MATERIAL SHOULD BE SUITABLE FOR ANY LEARNER ABOVE THE SIXTH GRADE LEVEL IN SEVERAL EXISTING SUBJECT AREAS: ART EDUCATION, SOCIAL STUDIES, SOCIOLOGY, GEOGRAPHY, HOME ECONOMICS, AND ENVIRONMENTAL STUDIES; TO A LESSER DEGREE IN: DESIGN STUDIES, BUILDING ARTS, AND HISTORY. THE LEARNING EXPERIENCES OF A UNIT WILL BE ENTIRELY SELF-CONTAINED IN A KIT WHICH WILL PROVIDE THE BASIS FOR OPEN INQUIRY ON THE TOPIC. THE OPEN-ENDED STUDENT-DIRECTED INVESTIGATION ACTIVITIES IN HIS COMMUNITY SHOULD INVOLVE APPLICATION OF THE UNIT TO THE SCHOOL, THE HOME, THE NEIGHBORHOOD, AND THEN THE ENTIRE CITY. THE EXPANSION OF THE CURRICULUM FRAMEWORK WAS INFLUENCED BY A REVIEW OF THE WORKS OF URBAN DESIGNERS INCLUDED HERE. (AUTHOR/SBE)

INSTITUTION NAME: WESTERN CURRICULUM PROJECT ON CANADA STUDIES, EDMONTON (ALBERTA).

ACCESSION NUMBERS: ED055018 SO001950

PUBLICATION DATE: JUN 71

TITLE: PROJECT CANADA WEST. FIVE TO NINE: URBANIZATION AND THE SOCIAL STUDIES CURRICULUM FOR THE FIRST FOUR YEARS (K-3) OF CANADIAN SCHOOLS.

INSTITUTION CODE: BBB04700

DESCRIPTOR: AFFECTIVE OBJECTIVES; COGNITIVE OBJECTIVES; CONCEPT TEACHING; CURRICULUM DEVELOPMENT; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; INDIVIDUAL DEVELOPMENT; *INQUIRY TRAINING; KINDERGARTEN; LITERATURE REVIEWS; SELF CONCEPT; SELF ESTEEM; SOCIALIZATION; *SOCIAL STUDIES; URBAN ENVIRONMENT; URBANIZATION; *URBAN STUDIES; *VALUES

IDENTIFIER: CANADA; *PROJECT CANADA WEST; VALUES EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 60P.

ISSUE: RIEJAN72

THE POWELL RIVER PROJECT PROPOSES IN THIS PROGRESS REPORT TO DESIGN A CURRICULUM WITH THE CANADIAN URBAN ENVIRONMENT AS A MAJOR FOCUS PROMOTING COGNITIVE AND AFFECTIVE LEARNINGS THAT ARE VERIFIABLY APPROPRIATE USING A TEAM OF PRIMARY TEACHERS AS DESIGNERS. ACTIVITIES AND EXPERIENCES WILL BE SELECTED WHICH LEAD THE CHILD TO LEARN HIS ROLE IN SOCIETY; UNDERSTAND THE RELATIONSHIP BETWEEN GROUPS, THE INTERDEPENDENCE OF PEOPLE AND INSTITUTIONS, AND, HOW THEY ARE AFFECTED BY URBANIZED ENVIRONMENTS; AND, DEVELOP SELF CONCEPT, SELF ESTEEM, AND A SENSE OF INDIVIDUAL RESPONSIBILITY. THE CRITERIA FOR THE SELECTION OF TEACHING STRATEGIES AND ACTIVITIES ARE OUTLINED: PRACTICE AND DEVELOPMENT OF INTELLECTUAL SKILLS, DIVERSITY OF TECHNIQUES, OPEN CLASSROOM CLIMATE, ACTIVE DECISION-MAKING, USE OF INQUIRY TECHNIQUES, AND FREE CONCEPT AND VALUE FORMATION. CRITERIA FOR THE STRUCTURE OF THE MATERIALS ARE ALSO GIVEN. TO BEGIN, THE PROJECT REVIEWED RELEVANT LITERATURE ON: URBANIZATION, CHILD PSYCHOLOGY AND LEARNING THEORY, STRUCTURE AND STRATEGY IN THE SOCIAL STUDIES, PRINTED TEACHING AND LEARNING RESOURCES, AND CURRENT AND PROJECTED SOCIAL STUDIES CURRICULA FOR THE CANADIAN PROVINCES. THE FINDINGS ARE SUMMARIZED HERE AND THE BIBLIOGRAPHY IS APPENDED. ALSO APPENDED ARE: 1) A SUMMARY OF AN INVENTORY OF KNOWLEDGE SKILLS AND ATTITUDES OF KINDERGARTEN CHILDREN; AND, A STUDY OF THE UNDERSTANDING OF THE ELEMENTARY CHILDREN OF POWELL RIVER CONCERNING THEIR CIVIC ELECTION. (AUTHOR/SBE)

INSTITUTION NAME: WESTERN CURRICULUM PROJECT ON CANADA STUDIES, EDMONTON (ALBERTA).

ACCESSION NUMBERS: ED055017 SO001949

PUBLICATION DATE: JUN 71

TITLE: PROJECT CANADA WEST. CANADIAN URBAN DYNAMICS: A MODEL FOR STUDENT INVOLVEMENT IN THE URBAN SETTING.

INSTITUTION CODE: BBB04700

DESCRIPTOR: *AREA STUDIES; CITY PLANNING; *COMMUNITY STUDY; CONCEPT TEACHING; ECOLOGY; *ENVIRONMENTAL EDUCATION; *FIELD EXPERIENCE PROGRAMS; INDIVIDUAL DEVELOPMENT; INTERDISCIPLINARY APPROACH; PROJECTS; SECONDARY GRADES; SIMULATION; SOCIALIZATION; SOCIAL SCIENCES; URBAN CULTURE; URBAN ENVIRONMENT; *URBAN STUDIES

IDENTIFIER: CANADA; *PROJECT CANADA WEST

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 31P.

ISSUE: RIEJAN72

THIS IS A PROGRESS REPORT OF A PROJECT IN THE PROCESS OF DEVELOPING AN INTERDISCIPLINARY SECONDARY SCHOOL CURRICULUM ON THE CANADIAN URBAN ENVIRONMENT. THE PRIMARY GOAL IS TO ENCOURAGE CONSTRUCTIVE INVOLVEMENT IN URBAN LIFE AND COMMUNITY DECISION-MAKING, AND DEVELOP A PERSONAL AND SOCIAL COMPETENCE THAT WILL ENGENDER A GREATER COMMITMENT TO THE CITY WHICH IS GROWING AND CHANGING. THE CONCEPTS COME FROM A VARIETY OF DISCIPLINES: 1) ANTHROPOLOGY; 2) CIVIL ENGINEERING: SERVICES AND UTILITIES; 3) ECOLOGY: THE ECOSYSTEM AND THE UTILIZATION OF RESOURCES; 4) ECONOMICS: GROWTH, ROLE OF THE CITY, AND BUSINESS; 5) LANDSCAPE ARCHITECTURE: SITE, ECOLOGY, AESTHETICS; 6) POLITICAL SCIENCE: DECISION-MAKING, POLITICAL HISTORY OF THE CITY; 7) PSYCHOLOGY: THE INDIVIDUAL, COMMUNICATION, SOCIAL INTERACTION AND SELF CONCEPT; AND, 8) REGIONAL PLANNING: THE INTERDEPENDENCE OF COMMUNITIES. BREIFLY, THE INTENDED LEARNING OUTCOMES INCLUDE INTELLECTUAL CONCEPTS, KNOWLEDGE, AND ATTITUDE CHANGE. THE PROJECT STAFF HAS BEEN WORKING WITH STUDENTS TO DEVELOP AND ORGANIZE ACTIVITIES TO CAUSE SUCH CHANGE OR NOURISH POSITIVE ATTITUDES IN ORDER TO COPE EFFECTIVELY WITHIN THE COMMUNITY. SIMULATION GAMES WERE TRIED, AND WORK-STUDIES IN THE COMMUNITY BEGAN. INTUITIVELY, THE STUDENTS RELATED THEIR WORK TO THE SOCIAL SCIENCES. THE GAMES USED AND THE SOURCES OF INFORMATION FOR THE STAFF AREA APPENDED ALONG WITH THE FUTURE PLANS OF THE PROJECT. (AUTHOR/SBE)

INSTITUTION NAME: WESTERN CURRICULUM PROJECT ON CANADA STUDIES, EDMONTON (ALBERTA).

ACCESSION NUMBERS: ED055015 SO001947

PUBLICATION DATE: JUN 71

TITLE: PROJECT CANADA WEST. CANADIAN ENVIRONMENTAL CONCEPTS.

INSTITUTION CODE: BBB04700

DESCRIPTOR: BIOLOGY; CITY PROBLEMS; CONCEPT TEACHING; CURRICULUM DEVELOPMENT; *ECOLOGY; *ENVIRONMENTAL EDUCATION; *HUMAN GEOGRAPHY; *INQUIRY TRAINING; INTERDISCIPLINARY APPROACH; NATURAL SCIENCES; *POLLUTION; PROJECTS; SECONDARY GRADES; SOCIAL SCIENCES; URBAN ENVIRONMENT

IDENTIFIER: CANADA; *PROJECT CANADA WEST

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 42P.

ISSUE: RIEJAN72

THE OVERALL OBJECTIVE OF THE CURRICULUM DEVELOPMENT PROJECT IS TO DEVELOP A GENERAL HIGH SCHOOL LEVEL INTERDISCIPLINARY COURSE ON ENVIRONMENT STUDIES. THIS POTENTIAL FIVE TO TEN MONTH COURSE IS OUTLINED AS FOLLOWS: ECOLOGY, WATER POLLUTION, AIR POLLUTION, NOISE POLLUTION, POPULATION, SOCIOECONOMIC IMPLICATIONS, AND RESOURCE MANAGEMENT. THE GENERAL INTENDED LEARNING OUTCOMES LISTED ARE: 1) TO UNDERSTAND THE CHANGING ROLE OF MAN IN CANADA WITH RESPECT TO HIS RELATIONSHIP WITH THE ECOSYSTEM; 2) TO HAVE A BETTER UNDERSTANDING OF THE NATURAL AND UNNATURAL STATES OF THE ENVIRONMENT; 3) TO UNDERSTAND HOW AN EXCESS OR DEFICIENCY OF MATERIALS AFFECTS MAN AND THE ECOSYSTEM; 4) TO UNDERSTAND THE GEOGRAPHICAL IMPLICATION OF POLLUTION WITH REFERENCE TO PHYSICAL AND POLITICAL BOUNDARIES; 5) TO FORM AN INQUIRY APPROACH TO MODERN SIMULATIONS; 6) TO DEVELOP AN UNDERSTANDING OF THE NEED FOR A BALANCE BETWEEN ECONOMIC AND RECREATIONAL NEEDS OF MAN; 7) TO UNDERSTAND THE ATTITUDES OF PEOPLE; 8) TO LEARN LABORATORY TECHNIQUES APPLICABLE; 9) TO UNDERSTAND THE EFFECT OF URBANIZATION IN CREATING AN UNNATURAL ECOSYSTEM; AND, 10) TO HAVE THE STUDENT EXAMINE AND DEVELOP HIS OWN VALUE SYSTEM. THE COURSE OUTLINES, CONCEPTS, AND INTENDED OUTCOMES ARE INCLUDED FOR ONLY THE FIRST TWO UNITS ON ECOLOGY AND WATER POLLUTION, ALONG WITH A PROJECT STATUS REPORT AND THE EVALUATION INTENTIONS. (AUTHOR/SBE)

INSTITUTION NAME: WESTERN CURRICULUM PROJECT ON CANADA STUDIES, EDMONTON (ALBERTA).

ACCESSION NUMBERS: ED055010 SO001939

PUBLICATION DATE: JUN 71

TITLE: PROJECT CANADA WEST. URBANIZATION AS SEEN THROUGH CANADIAN WRITINGS.

INSTITUTION CODE: BBB04700

DESCRIPTOR: CURRICULUM DEVELOPMENT; *ENVIRONMENTAL EDUCATION; INTERDISCIPLINARY APPROACH; LITERATURE; *LITERATURE PROGRAMS; PROJECTS; SELF CONCEPT; SENIOR HIGH SCHOOLS; SOCIAL PROBLEMS; *SOCIAL STUDIES; URBAN CULTURE; URBAN ENVIRONMENT; *URBANIZATION; *URBAN STUDIES

IDENTIFIER: CANADA; *PROJECT CANADA WEST

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 105P.

ISSUE: RIEJAN72

FACING THE REALITY THAT STUDENTS HAVE BECOME VERY AWARE OF THEIR ENVIRONMENT AND THE PROBLEMS WE FACE MERELY TO SURVIVE, AND BEING AWARE OF THE ALIENATION OF A PERSON AS URBANIZATION INCREASES, THE PROJECT STAFF DECIDED TO DEVELOP A CURRICULUM TO EXAMINE THE URBAN ENVIRONMENT THROUGH THE WORKS OF CANADIAN WRITERS, POETS, NOVELISTS, ETC. IN THIS WAY, TENTH, ELEVENTH, AND TWELFTH GRADE STUDENTS COULD CONFRONT SOME OF THE MAJOR CONCERNS; BECOME INVOLVED PERSONALLY, THOUGH VICARIOUSLY, IN THE LIVES AND SITUATIONS OF INDIVIDUALS; AND, LEARN ABOUT HIMSELF, HIS PLACE, HIS ROLE IN URBAN SOCIETY, AND HIS CANADIAN LITERARY HERITAGE. THE CONTENT SELECTION AND COMPILATION OF THE WRITINGS WAS FROM A NATIONAL POINT OF VIEW RELATED TO ALL PARTS OF CANADIAN URBANIZATION. THE MATERIALS ACCUMULATED OR REFERRED TO THEM DURING SIX MONTHS ARE INCLUDED HERE IN VARIOUS CATEGORIES TAKING INTO CONSIDERATION THE PHYSICAL AND HUMAN ELEMENTS OF EACH WORK: 1) FACES OF THE CITY: DESCRIPTIONS, REJECTION OF AND ATTRACTION TO THE CITY; 2) FACES IN THE CITY: DWELLERS LIFE STYLES, REACTIONS, AGE, ETHNIC GROUPS, CITY NATIVES; 3) POVERTY; 4) HANDICAPPED; 5) SOCIAL PRESSURES; AND, 6) POLLUTION. THE MATERIAL DISCUSSED IS VERY FLEXIBLE TO ALLOW FOR SURVEY STUDIES CITY OR LOCAL STUDIES, OR INTENSIVE AREA STUDIES OF URBAN REGIONS; AND, MAY BE USED AS SUPPLEMENTARY MATERIAL OR AS PRIMARY CONTENT. A PROGRESS REPORT, A PROPOSAL FOR A SUB-PROJECT, AND A BUDGET ARE ALSO INCLUDED. (AUTHOR/SBE)

INSTITUTION NAME: WESTERN CURRICULUM PROJECT ON CANADA STUDIES, EDMONTON (ALBERTA).

ACCESSION NUMBERS: ED055006 SO001885

PUBLICATION DATE: MAR 71

TITLE: A SELECTED BIBLIOGRAPHY ON INTERNATIONAL EDUCATION.

INSTITUTION CODE: QPX27225

DESCRIPTOR: BIBLIOGRAPHIES; CROSS CULTURAL STUDIES; CURRENT EVENTS; ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; FOREIGN POLICY; FOREIGN RELATIONS; *INTERNATIONAL EDUCATION; RESOURCE GUIDES; SECONDARY GRADES; *SOCIAL STUDIES; TECHNOLOGICAL ADVANCEMENT; *WORLD AFFAIRS; WORLD PROBLEMS

IDENTIFIER: *FUTUROLOGY; PEACE; WAR

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 7P.

ISSUE: RIEJAN72

THIS UNANNOTATED BIBLIOGRAPHY IS DIVIDED INTO FOUR MAJOR SECTIONS: 1) GENERAL BACKGROUND READINGS FOR TEACHERS; 2) APPROACHES AND METHODS; 3) MATERIALS FOR THE CLASSROOM; AND, 4) SOURCES OF INFORMATION AND MATERIALS. IT OFFERS A HIGHLY SELECTIVE LIST OF ITEMS WHICH PROVIDE WIDE COVERAGE OF THE FIELD. INCLUDED ARE ITEMS ON FOREIGN POLICY, WAR AND PEACE, TECHNOLOGY AND WORLD POWER, THE FUTURE, AND WORLD SURVIVAL. BOOKS, ARTICLES, AND OTHER MATERIALS RANGE FROM 1965 (ONE ITEM) THROUGH 1971. SECTION 4, SOURCES OF INFORMATION AND MATERIALS, IS A DIRECTORY OF INSTITUTIONAL AND PRINTED SOURCES, WHICH IS DIVIDED INTO THE FOLLOWING SECTIONS: AFRICA, ASIA, LATIN AMERICA, MIDDLE EAST, CURRENT ISSUES, FUTURES, AND WORLD AFFAIRS. (JLB)

INSTITUTION NAME: FOREIGN POLICY ASSOCIATION, NEW YORK, N.Y.

ACCESSION NUMBERS: ED054938 SE012330

PUBLICATION DATE: 71

TITLE: POPULATION.

PERSONAL AUTHOR: KING, PAT; LANDAHL, JOHN

INSTITUTION CODE: BBB01375

DESCRIPTOR: CURRICULUM DEVELOPMENT; DEMOGRAPHY; *ENVIRONMENTAL EDUCATION; *FUNDAMENTAL CONCEPTS; *INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; *POPULATION GROWTH; RESOURCE MATERIALS; STUDENT PROJECTS; *TEACHING GUIDES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 44P.

ISSUE: RIEJAN72

THIS PAMPHLET HAS BEEN PREPARED IN RESPONSE TO A NEW PROBLEM, A RAPIDLY INCREASING POPULATION, AND A NEW NEED, POPULATION EDUCATION. IT IS DESIGNED TO HELP TEACHERS PROVIDE THEIR STUDENTS WITH SOME BASIC POPULATION CONCEPTS WITH STRESS PLACED ON THE ELEMENTS OF DECISION MAKING. IN THE FIRST SECTION OF THE PAMPHLET, SOME OF THE BASIC CONCEPTS OF POPULATION STUDY ARE PRESENTED. THESE INCLUDE POPULATIONS, GROWTH RATES, BIRTH AND DEATH RATES, DOUBLING TIME, MIGRATION, AGE STRUCTURE, POPULATION PROJECTIONS, CARRYING CAPACITY, AND NATURAL REGULATIONS. IT IS FELT THAT A GENERAL UNDERSTANDING OF THESE BASIC CONCEPTS IS MORE IMPORTANT THAN ASSIMILATION OF SPECIFIC ITEMS OF INFORMATION, SINCE SUCH UNDERSTANDING ALLOWS THE WORKING OUT OF ANSWERS TO A BROAD RANGE OF SPECIFIC QUESTIONS. FOLLOWING THIS SECTION, A BRIEF OVERVIEW OF THE WORLD, UNITED STATES, AND WASHINGTON STATE POPULATION GROWTH IS PROVIDED. ALSO OUTLINED ARE RAMIFICATIONS OF POPULATION GROWTH AND SOME WAYS POPULATIONS ARE REDUCED. FINALLY, THE SAMPLE TEACHING-LEARNING ACTIVITIES ILLUSTRATE THE WIDE RANGE OF POSSIBILITIES FOR WEAVING POPULATION STUDY INTO THE TOTAL CURRICULUM. A TEAR OUT SECTION FOR STUDENT USE REQUIRING DECISION MAKING SKILLS, AND A BIBLIOGRAPHY OF BOOKS, TEACHING MATERIALS, FILMS, AND GAMES ARE INCLUDED. (BL)

AVAILABILITY: ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE AND MATHEMATICS EDUCATION, 1460 WEST LANE AVENUE, COLUMBUS, OHIO 43221 (ON LOAN)

INSTITUTION NAME: WASHINGTON STATE OFFICE OF PUBLIC INSTRUCTION, OLYMPIA.

ACCESSION NUMBERS: ED054935 SE012324

PUBLICATION DATE: 71

TITLE: A STATE PLAN FOR ENVIRONMENTAL EDUCATION.

INSTITUTION CODE: BBB01375

DESCRIPTOR: CURRICULUM DEVELOPMENT; EDUCATIONAL COORDINATION; EDUCATIONAL PROGRAMS; *ENVIRONMENTAL EDUCATION; *MASTER PLANS; *STATEWIDE PLANNING

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 15P.

ISSUE: RIEJAN72

REFLECTED IN THIS PLAN IS THE COMMITMENT TO A COMPREHENSIVE APPROACH TO ENVIRONMENTAL EDUCATION BY THE WASHINGTON STATE OFFICE OF PUBLIC INSTRUCTION. IT WAS DEVELOPED WITH THE PHILOSOPHY THAT RATIONAL DECISIONS REGARDING ENVIRONMENTAL MANAGEMENT CAN BE EXPECTED ONLY WHEN THE GENERAL PUBLIC ACQUIRES AN UNDERSTANDING OF THE INTERDEPENDENCE OF ALL SEGMENTS OF THE TOTAL ENVIRONMENT. THE NEED FOR AND STATUS OF ENVIRONMENTAL EDUCATION ARE EXPLORED ALONG WITH THE GOALS, OBJECTIVES, AND ORGANIZATIONAL SCHEME NECESSARY FOR CAREFULLY PLANNED EDUCATIONAL PROGRAMS. ACTIVITIES ALLOWING INVOLVEMENT AND PARTICIPATION BY STUDENTS, EDUCATORS, RESOURCE PEOPLE, COMMUNITY INDIVIDUALS AND ORGANIZATIONS, INDUSTRY, EDUCATIONAL INSTITUTIONS, GOVERNMENTAL AGENCIES, THE LEGISLATURE, AND CONGRESS ARE OUTLINED. ALSO, THE PLAN PROVIDES FOR STAFF DEVELOPMENT, CURRICULUM DEVELOPMENT, SELECTION AND PRODUCTION OF RESOURCES (PEOPLE, PLACES, AND MEDIA), AND EVALUATION OF BOTH ENVIRONMENTAL EDUCATION AND THE STATE PLAN ITSELF. (BL)

INSTITUTION NAME: WASHINGTON STATE OFFICE OF PUBLIC INSTRUCTION, OLYMPIA.

ACCESSION NUMBERS: ED054910 RC005624

PUBLICATION DATE: 65

TITLE: THE ROLE OF OUTDOOR EDUCATION.

PERSONAL AUTHOR: GABRIELSEN, M. ALEXANDER; HOLTZER, CHARLES

DESCRIPTOR: *ACTIVITIES; *CONSERVATION EDUCATION; *CURRICULUM DEVELOPMENT; LEADERSHIP TRAINING; *OUTDOOR EDUCATION; *PROGRAM DEVELOPMENT; PROGRAMS; PROJECTS; RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 117P.

ISSUE: RIEJAN72

WRITTEN TO ASSIST THOSE RESPONSIBLE FOR SCHOOL PROGRAMS IN OUTDOOR EDUCATION, THIS BOOK CONCERNS ITSELF WITH CURRICULUM, RESOURCES, LEADERSHIP, AND ACTIVITIES AND PROJECTS IN OUTDOOR EDUCATION. RELYING ON CURRENT THEORIES AND PRACTICES, THIS WORK SUGGESTS AREAS IN WHICH RESEARCH AND TESTING NEED TO BE DONE. MAJOR DIVISIONS OF THE BOOK ARE OUTDOOR EDUCATION AND AMERICAN EDUCATION, THE NATURE OF OUTDOOR EDUCATION PROGRAMS, OUTDOOR EDUCATION AND THE SCHOOL CURRICULUM, RESOURCES FOR OUTDOOR EDUCATION, PREPARING LEADERSHIP FOR OUTDOOR EDUCATION, INITIATING AN OUTDOOR EDUCATION PROGRAM, OUTDOOR EDUCATION ACTIVITIES AND PROJECTS, BIBLIOGRAPHY (81 REFERENCES), AN APPENDIX (SOURCES OF INFORMATION: FEDERAL AGENCIES, STATE AGENCIES, AND PRIVATE ORGANIZATIONS), AND A SUBJECT INDEX. (MJB)

AVAILABILITY: CENTER FOR APPLIED RESEARCH IN EDUCATION, INC., 70 FIFTH AVENUE, NEW YORK, NEW YORK 10011 ($3.95)

ACCESSION NUMBERS: ED054129 SP007328

PUBLICATION DATE: SEP 70

TITLE: SCIENCE EXPERIENCE UNIT: CONSERVATION.

INSTITUTION CODE: BBB05311

DESCRIPTOR: *CONSERVATION EDUCATION; *CURRICULUM GUIDES; *ENVIRONMENTAL EDUCATION; *INTERMEDIATE GRADES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 46P.

ISSUE: RIEDEC71

GRADES OR AGES: INTERMEDIATE GRADES. SUBJECT MATTER: CONSERVATION. ORGANIZATION AND PHYSICAL APPEARANCE: THE GUIDE IS DIVIDED INTO 24 EXPERIMENTS. IT IS MIMEOGRAPHED AND STAPLE-BOUND WITH A PAPER COVER. OBJECTIVES AND ACTIVITIES: A SPECIFIC SKILL OR KNOWLEDGE OBJECTIVE IS STATED AT THE BEGINNING OF EACH EXPERIMENT. DETAILED PROCEDURES ARE LISTED FOR EACH EXPERIMENT, WITH NUMEROUS ILLUSTRATIONS PROVIDED. ACTIVITIES ARE ABOUT EQUALLY DIVIDED BETWEEN LABORATORY EXPERIMENTS AND FIELD EXPERIMENTS AND OBSERVATIONS. INSTRUCTIONAL MATERIALS: THE GUIDE CONTAINS LISTS OF BOOKS, FILMS, CHARTS, AND ILLUSTRATIONS FOR USE IN IDENTIFYING INSECTS AND TREES. STUDENT ASSESSMENT: NO MENTION. (RT)

INSTITUTION NAME: FERGUSON-FLORISSANT SCHOOL DISTRICT, FERGUSON, MO.

ACCESSION NUMBERS: ED054020 SP001500

PUBLICATION DATE: MAY 69

TITLE: THE TIME IS NOW: POPULATION EDUCATION. A COMMENTARY AND ANNOTATED BIBLIOGRAPHY.

PERSONAL AUTHOR: BURLESON, NOEL-DAVID; AND OTHERS

INSTITUTION CODE: MGG30900

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; CURRICULUM DEVELOPMENT; *ENVIRONMENTAL EDUCATION; FAMILY PLANNING; INSTRUCTIONAL MATERIALS; OVERPOPULATION; *POPULATION GROWTH; SEX EDUCATION; *SOCIAL STUDIES

IDENTIFIER: *POPULATION EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 36P.

ISSUE: RIEDEC71

THE COMMENTARY WHICH INTRODUCES THIS 72-ITEM BIBLIOGRAPHY BRIEFLY OUTLINES THE SCOPE AND SIGNIFICANCE OF POPULATION EDUCATION, AND COMMENTS ON A FEW OF THE ITEMS INCLUDED. ALTHOUGH POPULATION EDUCATION HAS AN AS YET ILL-DEFINED RELATIONSHIP WITH REPRODUCTIVE (SEX) EDUCATION AND FAMILY LIFE EDUCATION, THE BULK OF THE ITEMS IN THIS BIBLIOGRAPHY HAVE TO DO WITH POPULATION AWARENESS, AND ARE IN THE FORM OF REPORTS, MIMEOGRAPHED PAPERS, AND JOURNAL ARTICLES. THERE ARE SEVERAL ITEMS GEARED FOR DIRECT CLASSROOM USE, SUCH AS TEACHER'S GUIDES, MODEL CURRICULA, ETC. DATES OF THE MATERIAL INCLUDED RANGE FROM 1956 (ONE ITEM) THROUGH 1969. THE AUTHOR STATES THAT THE TIME IS NOW BECAUSE RADICAL CHANGE IS OVERDUE IN EDUCATION, AND POPULATION EDUCATION IS ONLY ONE ATTEMPT TO BRING EDUCATION INTO THE 20TH CENTURY. (JLB)

INSTITUTION NAME: HARVARD UNIV., CAMBRIDGE, MASS. GRADUATE SCHOOL OF EDUCATION.

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ACCESSION NUMBERS: ED054018 SO001473

PUBLICATION DATE: MAR 70

TITLE: THE 70'S, DECADE OF ENVIRONMENTAL DECISION: EDUCATION AND ACTION GUIDELINES. ENVIRONMENTAL INFORMATION SOURCE GUIDE AND BIBLIOGRAPHY.

INSTITUTION CODE: BBB05318

DESCRIPTOR: *ACTION PROGRAMS (COMMUNITY); BIBLIOGRAPHIES; CITIZEN PARTICIPATION; COMMUNITY INVOLVEMENT; CURRICULUM DEVELOPMENT; *EDUCATIONAL PHILOSOPHY; ENVIRONMENTAL CRITERIA; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL RESEARCH; INDIVIDUAL POWER; INFORMATION SOURCES; *RESOURCE GUIDES; RESOURCE MATERIALS; SCHOOL ROLE; *SOCIAL CHANGE; SOCIAL RESPONSIBILITY; WORLD PROBLEMS

IDENTIFIER: FREE AND INEXPENSIVE MATERIALS; VALUES EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 50P.

ISSUE: RIEDEC71

THIS PAPER ADVOCATES ENVIRONMENTAL EDUCATION AS A SOLUTION TO ENVIRONMENTAL PROBLEMS. IT DEFINES ENVIRONMENTAL EDUCATION IN TERMS OF ITS GOALS: 1) THE SURVIVAL OF MAN AND THE IMPROVEMENT OF HIS LIFE; 2) ITS RELATIONSHIP WITH ACADEMIC DISCIPLINES AND INFORMAL EDUCATION; AND, 3) ITS VALUES AND PRINCIPLES IN RELATION TO DEMOCRACY. THE MAIN FOCUS OF THE PAPER IS ON THE STRATEGIES AND CURRICULA OF ENVIRONMENTAL EDUCATION PROGRAMS, BOTH IN SCHOOLS AND IN THE COMMUNITY AT LARGE. THE SOURCE GUIDE AND BIBLIOGRAPHY CITES OTHER BIBLIOGRAPHIES AND NATIONAL SOURCES OF FREE AND INEXPENSIVE MATERIALS. (DJB)

INSTITUTION NAME: MINNESOTA ENVIRONMENTAL SCIENCES FOUNDATION, INC., MINNEAPOLIS.

ACCESSION NUMBERS: ED054010 SO001144

PUBLICATION DATE: 1 APR 68

TITLE: A TEACHING GUIDE AND EXPERIENCE UNITS K-12. SOCIAL STUDIES. GRADE SIX.

INSTITUTION CODE: BBB05362

DESCRIPTOR: ADJUSTMENT (TO ENVIRONMENT); *AMERICAN HISTORY; *AREA STUDIES; CONCEPT TEACHING; CRITICAL THINKING; *CROSS CULTURAL STUDIES; CURRICULUM GUIDES; ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; FOREIGN RELATIONS; GEOGRAPHIC REGIONS; GRADE 6; *HUMAN GEOGRAPHY; INTERNATIONAL EDUCATION; LATIN AMERICAN CULTURE; PROBLEM SOLVING; SEQUENTIAL PROGRAMS; *SOCIAL STUDIES UNITS

IDENTIFIER: CANADA; *LATIN AMERICA

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 156P.

ISSUE: RIEDEC71

THE UNIT EXPERIENCES FOR THE K-12 CURRICULUM, INCLUDING THESE FOR GRADE 6, ARE OUTLINED IN SO 001 139. THESE UNITS INCLUDE THE STUDY OF THE CULTURE, HISTORY, GEOGRAPHY, AND ECONOMICS OF REGIONS OF LATIN AMERICAN AND CANADA. AGAIN, THE EMPHASIS FOR BOTH GRADE 5 AND GRADE 6 IS TWOFOLD: 1) TO KNOW HIS AMERICAN HERITAGE, AS WELL AS TO BECOME AWARE OF THE RIGHTS, FREEDOMS, AND RESPONSIBILITIES THAT OCCUR IN A DEMOCRACY; AND, 2) TO RECOGNIZE THE STRATEGIC POSITION OF THE UNITED STATES IN THE WESTERN HEMISPHERE THROUGH THE STUDY OF INTER-AMERICAN RELATIONS. OVERVIEW, OBJECTIVES, MOTIVATIONAL, DEVELOPMENTAL, AND REVIEW ACTIVITIES, AND CONTENT FOR EACH OF THE VARIOUS SUB-UNITS ARE SUMMARIZED: 1) USE OF MAP AND GLOBE; 2) THE ORGANIZATION OF AMERICAN STATES AND THE UNITED NATIONS; 3) HISTORICAL BACKGROUND OF LATIN AMERICA; 4) MEXICO; 5) CENTRAL AMERICAN COUNTRIES; 6) NORTHERN COUNTRIES OF SOUTH AMERICA; 7) THE ANDES NATIONS; 8) THE RIVER DE LA PLATA COUNTRIES; 9) LAND OF THE AMAZON, BRAZIL; 10) THE WEST INDIES AND THE GUIANAS; AND, 11) EXPLORING CANADA. EVALUATION OBJECTIVES AND TECHNIQUES ARE ALSO ENUMERATED. SO 001 138 THROUGH SO 001 144 ARE RELATED UNITS. (AUTHOR/SBE)

AVAILABILITY: SUPERVISOR OF ELEMENTARY SOCIAL STUDIES, 6558 SOUTH ACOMA STREET, LITTLETON, COLORADO 80120 ($2.00)

INSTITUTION NAME: ARAPAHOE COUNTY SCHOOL DISTRICT 6, LITTLETON, COLO.

ACCESSION NUMBERS: ED054009 SO001143

PUBLICATION DATE: 1 APR 70

TITLE: A TEACHING GUIDE AND EXPERIENCE UNITS K-12. SOCIAL STUDIES. GRADE FIVE.

INSTITUTION CODE: BBB05362

DESCRIPTOR: ADJUSTMENT (TO ENVIRONMENT); *AREA STUDIES; CITIZENSHIP; CONCEPT TEACHING; CRITICAL THINKING; *CULTURAL EDUCATION; CURRICULUM GUIDES; DEMOCRACY; ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; GEOGRAPHIC REGIONS; GRADE 5; *HUMAN GEOGRAPHY; PROBLEM SOLVING; SEQUENTIAL PROGRAMS; *SOCIAL STUDIES UNITS; *UNITED STATES HISTORY

IDENTIFIER: COLORADO; *UNITED STATES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 168P.

ISSUE: RIEDEC71

THE UNIT EXPERIENCES FOR THE K-12 CURRICULUM GUIDE, INCLUDING THESE FOR GRADE 5, ARE OUTLINED IN SO 001 139. THESE UNITS INCLUDE THE STUDY OF THE CULTURE, HISTORY, GEOGRAPHY, AND ECONOMICS OF REGIONS OF THE UNITED STATES. THE DEPTH STUDY OF COLORADO DRAWS RELATIONSHIP BETWEEN THE STATE, THE NATION, AND THE WORLD. THE EMPHASIS FOR BOTH GRADE 5 AND 6 IS TWOFOLD: 1) TO KNOW HIS AMERICAN HERITAGE, AS WELL AS TO BECOME AWARE OF THE RIGHTS, FREEDOMS, AND RESPONSIBILITIES THAT OCCUR IN A DEMOCRACY; AND, 2) TO RECOGNIZE THE STRATEGIC POSITION OF THE UNITED STATES IN THE WESTERN HEMISPHERE THROUGH THE STUDY OF INTER-AMERICAN RELATIONS. OVERVIEW, OBJECTIVES, MOTIVATIONAL, DEVELOPMENTAL, AND REVIEW ACTIVITIES, AND CONTENT FOR EACH OF THE VARIOUS SUB-UNITS ARE SUMMARIZED: 1) USE OF MAP AND GLOBE; 2) DISCOVERY AND EXPLORATION; 3) SOUTHEASTERN UNITED STATES; 4) NEW ENGLAND STATES; 5) MIDDLE ATLANTIC STATES; 6) A NEW NATION IS FOUNDED; 7) NORTH CENTRAL STATES; 8) SOUTH CENTRAL STATES; 9) OUR COUNTRY DIVIDED, OPEN CONFLICT; 10) ROCKY MOUNTAIN STATES; 11) COLORADO; 12) PACIFIC COAST STATES; 13) ALASKA, HAWAII, AND POSSESSIONS; 14) CITIZENSHIP: HERITAGE, RIGHTS, AND RESPONSIBILITIES. EVALUATION OBJECTIVES AND TECHNIQUES ARE ALSO ENUMERATED. SO 001 138 THROUGH SO 001 144 ARE RELATED UNITS. (AUTHOR/SBE)

AVAILABILITY: SUPERVISOR OF ELEMENTARY SOCIAL STUDIES, 6558 SOUTH ACOMA STREET, LITTLETON, COLORADO 80120 ($2.00)

INSTITUTION NAME: ARAPAHOE COUNTY SCHOOL DISTRICT 6, LITTLETON, COLO.

ACCESSION NUMBERS: ED054008 SO001142

PUBLICATION DATE: 1 APR 70

TITLE: A TEACHING GUIDE AND EXPERIENCE UNITS K-12. SOCIAL STUDIES. GRADE FOUR.

INSTITUTION CODE: BBB05362

DESCRIPTOR: ADJUSTMENT (TO ENVIRONMENT); *AREA STUDIES; CONCEPT TEACHING; CRITICAL THINKING; *CROSS CULTURAL STUDIES; CURRICULUM GUIDES; ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; GEOGRAPHIC REGIONS; GRADE 4; *HUMAN GEOGRAPHY; MAP SKILLS; PROBLEM SOLVING; SEQUENTIAL PROGRAMS; *SOCIAL STUDIES UNITS; *WORLD GEOGRAPHY

IDENTIFIER: ARCTIC; ARGENTINA; CONGO; EQUADOR; JAPAN; LATIN AMERICA; NETHERLANDS; SAUDI ARABIA; UNITED STATES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 133P.

ISSUE: RIEDEC71

THE UNIT EXPERIENCES FOR THE K-12 CURRICULUM GUIDE, INCLUDING THESE FOR GRADE 4, ARE OUTLINED IN SO 001 139. THESE UNITS INITIATE THE STUDY OF GEOGRAPHIC REGIONS OF THE WORLD. EMPHASIS IN THESE AREA STUDIES IS PLACED ON THE REGIONAL TOPOGRAPHY, GEOGRAPHIC FACTORS, AND PEOPLE'S ECONOMIC, SOCIAL, AND CULTURAL ADJUSTMENT TO THEIR ENVIRONMENT OR SURROUNDINGS. OVERVIEW, OBJECTIVES, MOTIVATIONAL, DEVELOPMENTAL, AND REVIEW ACTIVITIES, AND CONTENT FOR EACH OF THE VARIOUS SUB-UNITS ARE SUMMARIZED: 1) USE OF MAP AND GLOBE --COMMUNITY, COUNTRY OR NATIONAL COMMUNITY, CONTINENT, WORLD, SOLAR SYSTEM; 2) METROPOLITAN STUDY --HISTORICAL DEVELOPMENT OF DENVER, DEMOGRAPHY, POINTS OF INTEREST, GOVERNMENT, ECONOMIC CHARACTERISTICS, AND COMPARISON WITH NEW YORK CITY; 3) ISLAND REGIONS --GENERAL, AND DETAILED AREA STUDY OF JAPAN INCLUDING PHYSICAL FEATURES, CLIMATE, HISTORY, CULTURE, OCCUPATIONS, TRANSPORTATION AND COMMUNICATION, EDUCATION, AND GOVERNMENT; 4) MAN AT HIGH LATITUDES --ESKIMO AND LAPP AND LIFE ON TUNDRA LANDS; 5) DESERT LANDS (SAUDI ARABIA) --COMPARISONS WITH THE DESERT LANDS OF ARIZONA, NEW MEXICO, AND UTAH, WITH POSSIBLE CULTURAL COMPARISONS; 6) HOT, WET LANDS OF THE RAIN FOREST (AMAZON AND CONGO); 7) POLDER, LAND FROM THE SEA (NETHERLANDS); 8) MOUNTAIN REGION (EQUADOR); 9) RANCHLANDS IN ARGENTINA AND THE UNITED STATES; AND, 10) CALIFORNIA, LAND OF CONTRAST --COMPARISON WITH ALL THE OTHER AREAS OF THE WORLD. EVALUATION OBJECTIVES AND TECHNIQUES ARE ALSO ENUMERATED. SO 001 138 THROUGH SO 001 144 ARE RELATED UNITS. (AUTHOR/SBE)

AVAILABILITY: SUPERVISOR OF ELEMENTARY SOCIAL STUDIES, 6558 SOUTH ACOMA STREET, LITTLETON, COLORADO 80120 ($2.00)

INSTITUTION NAME: ARAPAHOE COUNTY SCHOOL DISTRICT 6, LITTLETON, COLO.

ACCESSION NUMBERS: ED054007 SO001139

PUBLICATION DATE: 1 APR 68

TITLE: A TEACHING GUIDE AND EXPERIENCE UNITS K-12. SOCIAL STUDIES. GRADE ONE.

INSTITUTION CODE: BBB05362

DESCRIPTOR: ADJUSTMENT (TO ENVIRONMENT); CITIZENSHIP; CONCEPT TEACHING; CRITICAL THINKING; *CULTURAL EDUCATION; CURRICULUM GUIDES; ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; FAMILY (SOCIOLOGICAL UNIT); *FAMILY LIFE; GRADE 1; *HUMAN GEOGRAPHY; *HUMAN RELATIONS UNITS; INTERGROUP EDUCATION; PROBLEM SOLVING; SEQUENTIAL PROGRAMS; *SOCIAL STUDIES UNITS

IDENTIFIER: COLORADO; UNITED STATES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 83P.

ISSUE: RIEDEC71

THE UNIT EXPERIENCES FOR THE K-12 CURRICULUM, INCLUDING THESE FOR GRADE 1, WERE DESIGNED BY THE DISTRICT STAFF TO ACHIEVE A MORE COMPREHENSIVE KNOWLEDGE OF THE WORLD IN WHICH WE LIVE; TO DEVELOP THE ABILITY TO THINK CRITICALLY AND CREATIVELY; TO USE INQUIRY AND PROBLEM SOLVING SKILLS IN HUMAN RELATIONS SITUATIONS; TO UNDERSTAND MAJOR SOCIAL STUDIES CONCEPTS; TO UNDERSTAND AND USE WISELY THE CULTURAL AND PHYSICAL RESOURCES OF THE WORLD; AND, TO DEVELOP THE SKILLS AND ATTITUDES NEEDED TO COPE WITH CHANGE. THE FIRST GRADE STUDY OF COMPARATIVE FAMILY LIVING WILL HELP THE STUDENT BECOME AWARE OF THE SIMILARITIES AND DIFFERENCES IN VARIOUS FAMILY PATTERNS. OVERVIEW, OBJECTIVES, MOTIVATIONAL, DEVELOPMENTAL, AND REVIEW ACTIVITIES, AND CONTENT FOR EACH OF THE SUB-UNITS ARE SUMMARIZED: 1) SCHOOL ENVIRONMENT --PHYSICAL PLANT SCHOOL PERSONNEL, SAFETY, THINGS TO DO, AND INDIVIDUAL RESPONSIBILITY TO THE GROUP; 2) NEIGHBORHOOD ENVIRONMENT -- CONCEPT, CHANGES, GOOD CITIZENSHIP, THE URBAN AND RURAL NEIGHBORHOOD; 3) COMPARATIVE FAMILY LIVING --LOCAL, HAWAIIAN, ALASKAN, JAPANESE, FAMILIES; 4) GEOGRAPHY --PERSONAL AND ENVIRONMENTAL DIRECTIONS, GLOBES, AND MAPS; 5) OUR FLAG AND COUNTRY --LEADERSHIP AND CITIZENSHIP, HISTORICAL LEADERS AND EVENTS; 6) HOLIDAYS AND SPECIAL OCCASIONS AND SEASONS. TESTING AND EVALUATION OBJECTIVES AND TECHNIQUES FOR MEASURING THE COGNITIVE AND AFFECTIVE GROWTH OF THE STUDENT ARE ALSO ENUMERATED. SO 001 138 THROUGH SO 001 144 ARE RELATED UNITS. (AUTHOR/SBE)

AVAILABILITY: SUPERVISOR OF ELEMENTARY SOCIAL STUDIES, 6558 SOUTH ACOMA STREET, LITTLETON, COLORADO 80120 ($2.00)

INSTITUTION NAME: ARAPAHOE COUNTY SCHOOL DISTRICT 6, LITTLETON, COLO.

ACCESSION NUMBERS: ED053994 SE012353 94

PUBLICATION DATE: 71

TITLE: CURRICULUM RESEARCH AND DEVELOPMENT IN SCIENCE.

INSTITUTION CODE: BBB04302

DESCRIPTOR: BIBLIOGRAPHIES; *CURRICULUM DEVELOPMENT; *EDUCATIONAL RESEARCH; *ENVIRONMENTAL EDUCATION; GEOGRAPHY INSTRUCTION; MATHEMATICS EDUCATION; PROGRAM DESCRIPTIONS; *SCIENCE EDUCATION

IDENTIFIER: *ENGLAND; WALES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 4P.

ISSUE: RIEDEC71

SUMMARIES OF THE OBJECTIVES AND TYPES OF SCIENCE MATERIALS PRODUCED OR PLANNED FOR CHILDREN (FROM 5-18) IN ENGLISH AND WELSH SCHOOLS ARE PROVIDED. THERE ARE TWELVE RELATIVELY LARGE-SCALE SCIENCE CURRICULUM PROJECTS AND SEVEN (INCLUDING SOME ENVIRONMENTAL, INTEGRATED, AND GENERAL STUDIES PROGRAMS) THAT REQUIRE SOME SCIENCE. EACH SUMMARY INCLUDES THE ADDRESS OF THE PROJECT DIRECTOR. ANNOTATIONS ON SEVEN ENGLISH RESEARCH PROJECTS CONCERNED WITH SOME ASPECT OF SCIENCE EDUCATION, THE ADDRESS OF TWO GEOGRAPHY AND FOUR MATHEMATICS CURRICULUM PROJECTS, AND A SELECT BIBLIOGRAPHY OF SCHOOLS COUNCIL PUBLICATIONS ARE ALSO INCLUDED. (AL)

INSTITUTION NAME: SCHOOLS COUNCIL, LONDON (ENGLAND).

ACCESSION NUMBERS: ED053992 SE012339

PUBLICATION DATE: 71

TITLE: THE SOUTHEASTERN REGIONAL CONFERENCE ON THE SOCIAL SCIENCES AND ENVIRONMENTAL EDUCATION (ATHENS, GEORGIA, 1971).

PERSONAL AUTHOR: SAVELAND, ROBERT N.

INSTITUTION CODE: IEE29100

DESCRIPTOR: *CONFERENCE REPORTS; *CURRICULUM DEVELOPMENT; EDUCATIONAL DEVELOPMENT; *ENVIRONMENTAL EDUCATION; EVALUATION; RESOURCE MATERIALS; *SOCIAL SCIENCES; SPEECHES

IDENTIFIER: GEORGIA

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 66P.

ISSUE: RIEDEC71

REMARKS PRESENTED AT THE SOUTHEASTERN REGIONAL CONFERENCE ON THE SOCIAL SCIENCES AND ENVIRONMENTAL EDUCATION, HELD AT ATHENS, GEORGIA, ARE COMPILED IN THIS DOCUMENT. TWO MAJOR CONFERENCE ADDRESSES ARE REPORTED IN THEIR ENTIRETY: "INTERNATIONAL PROGRAMS IN ENVIRONMENTAL EDUCATION" BY DR. JAN CEROVSKY, EDUCATION EXECUTIVE OFFICER, INTERNATIONAL UNION FOR CONSERVATION OF NATURE AND NATURAL RESOURCES, MORGES, SWITZERLAND, AND "NATIONAL LEGISLATION AND ENVIRONMENTAL QUALITY" BY CONGRESSMAN BEN BLACKBURN OF GEORGIA. COMMENTS MADE BY PANELISTS OR PARTICIPANTS AT FOUR SESSIONS ARE COVERED UNDER THE FOLLOWING TOPICS AND HEADINGS: (1) "KEY IDEAS FROM THE DISCIPLINES" - ECOLOGY, ECONOMICS, GEOGRAPHY, POLITICAL SCIENCE,AND SOCIOLOGY; (2) "IMPLEMENTING CURRICULUM CHANGES" - NATIONAL PARK SERVICE EDUCATIONAL PROGRAMS, LAND BETWEEN THE LAKES, TENNESSEE VALLEY AUTHORITY, CURRICULUM AND SUPERVISION, SCIENCE EDUCATION, BRENTREE ENVIRONMENTAL CENTER, AND CITIZEN-CONSUMER RESPONSE; (3) "CURRICULUM APPLICATIONS" - NOTES FROM GROUP MEETINGS (COLLEGE, SECONDARY, MIDDLE AND JUNIOR HIGH, ELEMENTARY), STUDENT REACTIONS, CLOSED CIRCUIT TV, SIMULATION GAMES, MATERIALS, AND SELECTED FILMS; AND (4) "STATE ACTION REPORTS" - ALABAMA, FLORIDA, GEORGIA, KENTUCKY, NORTH CAROLINA, AND SOUTH CAROLINA. A CANDID EVALUATION OF THE CONFERENCE - ITS ORGANIZATION, CONTENT, VALUE, AND PARTICIPANT REACTION - IS SUPPLIED. THE REPORT CONCLUDES WITH A LIST OF PARTICIPANTS, EXHIBITORS, AND A BIBLIOGRAPHY. (BL)

INSTITUTION NAME: GEORGIA UNIV., ATHENS.

ACCESSION NUMBERS: ED053989 SE012327

PUBLICATION DATE: 71

TITLE: AN ENVIRONMENTAL EXPERIENCE. MAN: STEWARD OF HIS ENVIRONMENT.

INSTITUTION CODE: QPX62775

DESCRIPTOR: *COMMUNITY INVOLVEMENT; CURRICULUM DEVELOPMENT; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; SECONDARY GRADES; SOCIAL SCIENCES; *STUDENT PROJECTS; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 20P.

ISSUE: RIEDEC71

ENVIRONMENTAL AWARENESS EXPERIENCES DESCRIBED IN THIS GUIDE ARE DESIGNED TO SERVE AS MODELS OR SUGGESTIONS FOR TEACHERS CONDUCTING ACTIVITIES DIRECTED TOWARD ENVIRONMENTAL IMPROVEMENT. "MAN: STEWARD OF HIS ENVIRONMENT" IS THE THEME OF THE 14 EXPERIENCES UTILIZING BEHAVIOR PROFILES, AUDIO-VISUAL EXHIBITS, AREA STUDIES, SERVICE PROJECTS, MASS COMMUNICATIONS, PROGRAM PLANNING, SURVEYS, CAMPAIGNS, AND MORATORIUMS. ALTHOUGH THE EXPERIENCES SUGGEST A USE BY SCHOOL GROUPS OR BY CLASSES, THEY ARE NOT KEYED TO THE INSTRUCTIONAL PROGRAM PER SE. HOWEVER, IMPLICATIONS FOR CLASSROOM FOLLOWUP ACTIVITIES AND CONTINUING COMMITMENTS ARE EXPLICIT. THEY ARE NOT DESIGNATED AS K-6 OR 7-12 EXPERIENCES SINCE THE IDEAS EXPRESSED CAN BE ADAPTED SUITABLY FOR ALL LEVELS. AN ANNOTATED FILM LIST, DIRECTORY OF FILM DISTRIBUTORS, AND ADDITIONAL IDEAS FOR LOCAL ENVIRONMENTAL PROJECTS ARE APPENDED. THE PUBLICATION'S AIM WAS TO STIMULATE PREPARATIONS FOR CONSERVATION DAY PROGRAMS AND WAS WRITTEN BY THE ENVIRONMENTAL TASK FORCE AT THE REQUEST OF THE NEW YORK STATE COMMISSIONER OF EDUCATION. (BL)

INSTITUTION NAME: NEW YORK STATE EDUCATION DEPT., ALBANY.

ACCESSION NUMBERS: ED053979 SE012302

PUBLICATION DATE: 71

TITLE: HOW TO PRESENT AUDIBLE MULTI-IMAGERY IN ENVIRONMENTAL ECOLOGICAL EDUCATION.

PERSONAL AUTHOR: TROHANIS, PASCAL L.

INSTITUTION CODE: FGK57300

DESCRIPTOR: AUDIO EQUIPMENT; *AUDIOVISUAL AIDS; CURRICULUM ENRICHMENT; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *INSTRUCTIONAL TECHNOLOGY; MULTIMEDIA INSTRUCTION; *MULTISENSORY LEARNING; PROJECTION EQUIPMENT

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 8P.

ISSUE: RIEDEC71

DESCRIBED IN THIS INSTRUCTIONAL AID PAMPHLET IS THE USE OF AN INSTRUCTIONAL TECHNOLOGY APPROACH KNOWN AS AUDIBLE MULTI-IMAGERY (AMI) TO ACHIEVE SOME OF THE BROAD GOALS OF ENVIRONMENTAL EDUCATION. AMI REFERS TO THE INTEGRAL DEVELOPMENT AND DISPLAY OF TWO OR MORE SIMULTANEOUSLY PROJECTED VISUAL IMAGES EITHER WITH OR IN COMBINATION WITH 2 X 2-INCH SLIDES, MOTION FILM, AND/OR OVERHEAD TRANSPARENCIES. COUPLED WITH THE IMAGERY COMPONENT IS THE CORRESPONDING SOUND OR AUDIO TRACK, WHICH IS USUALLY PREPARED ON AUDIOTAPE AND IS PLAYED CONCURRENTLY WITH THE PICTORIAL MATERIAL. WHILE MANY MEDIA COMBINATIONS ARE POSSIBLE FOR THE DEVELOPMENT OF THIS TYPE OF LEARNING ENDEAVOR, DISCUSSION IS LIMITED TO THE CREATION OF AN ENVIRONMENTAL THREE-SCREEN SLIDE AND SOUND PRESENTATION. THEORETICAL AND PROCEDURAL CONCERNS OF THE TECHNIQUE ARE CHARACTERIZED UNDER THE FOLLOWING TOPICS: (1) A BRIEF DESCRIPTION OF FUNCTIONAL CAPABILITIES, (2) A SHORT ACCOUNT OF THE FOUR STRUCTURAL ELEMENTS THAT COMPLEMENT FUNCTIONS, AND (3) AN EXPLANATION OF HOW TO PLAN, PRODUCE, AND PRESENT AN AMI PROGRAM, WITH EACH PHASE OFFERING 10-12 SUGGESTIONS. A BIBLIOGRAPHY IS ALSO SUPPLIED. (BL)

AVAILABILITY: NATIONAL SCIENCE TEACHERS ASSOCIATION, 1201 SIXTEENTH STREET, N.W., WASHINGTON, D.C., 20036 ($0.50)

INSTITUTION NAME: NATIONAL SCIENCE TEACHERS ASSOCIATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED053945 SE012151

PROGRAM AREA: 24

PUBLICATION DATE: 68

TITLE: THE INTERACTION OF MAN WITH HIS ENVIRONMENT. SCIENCE III AND IIIB.

PERSONAL AUTHOR: PFEIFFER, CARL H.

INSTITUTION CODE: BBB02037; BBB05285

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: *ECOLOGY; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *FUSED CURRICULUM; *INSTRUCTIONAL MATERIALS; *INTEGRATED CURRICULUM; INTERDISCIPLINARY APPROACH; SCIENCE ACTIVITIES; SECONDARY SCHOOL SCIENCE; WORKBOOKS

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$13.16

DESCRIPTIVE NOTE: 320P.; DUE TO COPYRIGHT RESTRICTIONS, SOME PAGES ARE NOT INCLUDED

ISSUE: RIEDEC71

THE TWO STUDENT NOTEBOOKS IN THIS SET PROVIDE THE BASIC COURSE OUTLINE AND ASSIGNMENTS FOR THE THIRD YEAR OF A FOUR YEAR SENIOR HIGH SCHOOL UNIFIED SCIENCE PROGRAM. THIS COURSE IS THE LESS TECHNICAL OF THE TWO THIRD-YEAR COURSES OFFERED IN THE PROGRAM. THE FIRST OF THE THREE MAJOR UNITS IN THIS COURSE, STRUCTURE AND DYNAMICS OF THE BIOSPHERE, IS COMPOSED OF THREE SUB-UNITS: THE NATURE AND SCOPE OF ECOLOGICAL SCIENCE, THE ECOSYSTEM, AND MAN IN THE BIOSPHERE. THE SECOND UNIT, POPULATION STRUCTURE AND DYNAMICS, CONTAINS FOUR SUB-UNITS: STRUCTURE AND ORGANIZATION, THE FUNCTIONING OF POPULATIONS, POPULATION GENETICS, AND HUMAN POPULATIONS. THE THIRD UNIT, PROBLEMS OF COEXISTENCE, CONTAINS THESE SUB-UNITS: PROBLEMS OF COEXISTENCE WITH THE PHYSICAL ENVIRONMENT, WITH OTHER ORGANISMS, AND WITHIN SOCIETY. THE FINAL SUB-UNIT OF THE COURSE IS SCIENCE AND THE EVOLVING SOCIETY. THE NOTEBOOK MATERIALS FOR EACH OF THE SUB-UNITS INCLUDE: A LIST OF REQUIRED AND RECOMMENDED READINGS FROM VARIOUS OTHER BOOKS; QUESTIONS FOR CONSIDERATION IN INTRODUCING A LESSON; A BRIEF BACKGROUND READING; A BASIC OUTLINE OF THE LECTURES WITH SPACE PROVIDED WITHIN THE OUTLINE FOR NOTES; LABORATORY ACTIVITIES AND INVESTIGATIONS; LABORATORY PROBLEM REPORTS AND OTHER KINDS OF ASSIGNMENTS (DISCUSSION QUESTIONS, FILL-INS, PROBLEMS); AND SUMMARY STATEMENTS AND REVIEW QUESTIONS. NUMEROUS DIAGRAMS AND ILLUSTRATIONS ARE INCLUDED. (PR)

BUREAU NUMBER: BR-5-0646

INSTITUTION NAME: MONONA GROVE HIGH SCHOOL, MONONA, WIS.; WISCONSIN STATE DEPT. OF EDUCATION, MADISON.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH

ACCESSION NUMBERS: ED053938 SE012128

PUBLICATION DATE: 71

TITLE: SOCIAL-PHYSICAL ENVIRONMENT 8.

INSTITUTION CODE: NSD52650

DESCRIPTOR: *BEHAVIOR DEVELOPMENT; *COGNITIVE PROCESSES; CURRICULUM; *ENVIRONMENTAL EDUCATION; GRADE 8; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; *SOCIAL ENVIRONMENT; *TEACHING GUIDES; UNIT PLAN

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 68P.; WORKING COPY

ISSUE: RIEDEC71

THE NINTH OF THIRTEEN UNITS FOR AN ENVIRONMENTAL EDUCATION CURRICULUM IS PRESENTED IN THIS TEACHER'S GUIDE. THE COLLECTION OF UNITS FOR GRADES K-12 WAS WRITTEN IN RESPONSE TO A MANDATE FROM THE MINNESOTA STATE LEGISLATURE THROUGH A BILL MAKING PROVISIONS FOR DEVELOPING AND IMPLEMENTING A STATE-WIDE ENVIRONMENTAL EDUCATION PROGRAM. THE UNITS ARE EXPERIMENTAL IN NATURE AND ARE NOT ORIENTED AS TO SUBJECT MATTER OR ACADEMIC DISCIPLINE. THE EIGHTH GRADE UNIT, SOCIAL-PHYSICAL ENVIRONMENT, INVOLVES STUDENTS IN PRACTICING "SURVIVAL" TECHNIQUES FOR MORE COMFORTABLE LIVING IN THE PHYSICAL, TANGIBLE REALM OF THE SOCIAL ENVIRONMENT. THE UNIT ATTEMPTS TO SHOW THE PUPILS HOW TO SOLVE A "REAL", LIVING PROBLEM BASED ON THE THEORY THAT OFTEN A PERSON'S INABILITY TO SURVIVE IN A PARTICULAR SOCIAL ENVIRONMENT IS THE RESULT OF NOT KNOWING HOW TO DO WHAT HE KNOWS HE MUST DO. ACTIVITIES AIMED AT PROVIDING REAL-WORLD INVOLVEMENT THROUGH ENVIRONMENTAL INVESTIGATION INCLUDE MEAL PLANNING, GROCERY SHOPPING, PRODUCT QUALITY ANALYSIS, CARBOHYDRATE DIET RECORDING, DETERMINATION OF PRODUCT PACKAGING, EXPERIENCES IN BUSINESS PRACTICES, AND APPLYING CONSUMER PRESSURE FOR ENVIRONMENTAL CONTROL. A LIST OF MATERIALS NEEDED PRECEDES EACH ACTIVITY. BACKGROUND INFORMATION INCLUDES A NARRATION OF FEDERAL LEGISLATION RELATING TO FOOD. (BL)

INSTITUTION NAME: MINNESOTA STATE DEPT. OF EDUCATION, ST. PAUL.

ACCESSION NUMBERS: ED053937 SE012127

PUBLICATION DATE: 71

TITLE: RECOGNIZING ASSOCIATIONS-K.

PERSONAL AUTHOR: LANDIN, ED.; AND OTHERS

INSTITUTION CODE: NSD52650

DESCRIPTOR: *ASSOCIATIVE LEARNING; *BEHAVIOR DEVELOPMENT; *COGNITIVE PROCESSES; CURRICULUM; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; KINDERGARTEN; LEARNING ACTIVITIES; *TEACHING GUIDES; UNIT PLAN

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 44P.; WORKING COPY

ISSUE: RIEDEC71

THE FIRST OF THIRTEEN UNITS SUGGESTED FOR AN ENVIRONMENTAL EDUCATION CURRICULUM IS PRESENTED IN THIS TEACHER'S GUIDE. THE COLLECTION OF UNITS FOR GRADES K-12 WAS WRITTEN IN RESPONSE TO A MANDATE FROM THE MINNESOTA STATE LEGISLATURE THROUGH A BILL MAKING PROVISIONS FOR DEVELOPING AND IMPLEMENTING A STATE-WIDE ENVIRONMENTAL EDUCATION PROGRAM. THE UNITS ARE EXPERIMENTAL IN NATURE AND ARE NOT ORIENTED AS TO SUBJECT MATTER OR ACADEMIC DISCIPLINE. THE KINDERGARTEN UNIT, "RECOGNIZING ASSOCIATIONS", STRIVES TO MAKE CHILDREN BECOME AWARE OF THE ASSOCIATIONS BETWEEN A SYMBOL AND AN EVENT IN ORDER TO PREDICT AN APPROPRIATE OUTCOME. TO DO THIS THE SKILLS OF REASONING AND OBSERVATION ARE STRESSED, WITH EXPERIMENTATION USED ONLY TO HELP PUPILS REALIZE IT IS NECESSARY TO PAY CLOSE ATTENTION TO PROCEDURE IN ORDER TO MAKE VALID PREDICTIONS. THE ACTIVITIES ARE DESIGNED TO PROVIDE EXPERIENCES IN COMPARING AND CONTRASTING, DUPLICATING STRUCTURES, AND PREDICTING OUTCOMES. A LIST OF MATERIALS NEEDED PRECEDES EACH ACTIVITY. ALTHOUGH WRITTEN FOR A SPECIFIC GRADE, THE UNIT CAN BE ADAPTED FOR ANY LEVEL OR SITUATION. (BL)

INSTITUTION NAME: MINNESOTA STATE DEPT. OF EDUCATION, ST. PAUL.

ACCESSION NUMBERS: ED053936 SE012121

PUBLICATION DATE: AUG 70

TITLE: NATIONAL CONSERVATION EDUCATION ASSOCIATION CONFERENCE REPORT (17TH, LAFAYETTE, LOUISIANA, AUGUST 16-20, 1970).

PERSONAL AUTHOR: WARREN, GENE, JR., ED.

DESCRIPTOR: *CONFERENCE REPORTS; *CONSERVATION EDUCATION; CURRICULUM DEVELOPMENT; *EDUCATIONAL DEVELOPMENT; EDUCATIONAL PROGRAMS; ENVIRONMENTAL EDUCATION; *GUIDELINES; OUTDOOR EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 40P.

ISSUE: RIEDEC71

PROCEEDINGS OF THE 1970 CONSERVATION EDUCATION ASSOCIATION CONFERENCE, HELD AT THE UNIVERSITY OF SOUTHWESTERN LOUISIANA, LAFAYETTE, LOUISIANA, ARE REPORTED. THE THEME OF THE CONFERENCE WAS CONSERVATION EDUCATION FOR QUALITY LIVING. SUMMARIES FOR EACH OF THE TOPICS DISCUSSED FORM THE MAIN CONTENT OF THE REPORT: SUGGESTIONS FOR DEVELOPING CURRICULUM MATERIALS IN CONSERVATION EDUCATION; DEFINITION - CONSERVATION EDUCATION, ENVIRONMENTAL EDUCATION, OUTDOOR EDUCATION; INTEGRATING CONSERVATION EDUCATION INTO THE CURRICULUM; ORGANIZATION AND RESPONSIBILITIES OF STATE DEPARTMENTS OF EDUCATION IN CONSERVATION EDUCATION; CONSERVATION EDUCATION IN URBAN AREAS; GUIDELINES AND FUNCTIONS OF STATE ADVISORY COUNCILS; THE ROLE OF CONSERVATION EDUCATION IN ADULT GROUPS; UTILIZING THE OUTDOOR SCHOOL SITE; GUIDELINES FOR PRE-SERVICE AND IN-SERVICE TEACHER EDUCATION IN CONSERVATION; THE ROLE OF YOUTH GROUPS IN CONSERVATION EDUCATION; THE ROLE OF INDUSTRY IN CONSERVATION EDUCATION; AND COMMUNITY ACTION PROGRAMS IN PROMOTING CONSERVATION EDUCATION. ALSO INCLUDED ARE THE PROGRAM AGENDA, SUMMARY OF THE POST-CONFERENCE TOUR, AND A FINANCIAL REPORT OF THE ASSOCIATION. (BL)

ACCESSION NUMBERS: ED053922 SE011303

PUBLICATION DATE: JUN 70

TITLE: CLEAN WATER FOR THE 1970'S, A STATUS REPORT.

INSTITUTION CODE: BBB04371

DESCRIPTOR: *ENVIRONMENT; *FEDERAL LEGISLATION; *FEDERAL PROGRAMS; NATURAL RESOURCES; *POLLUTION; PROGRAM DESCRIPTIONS; RESOURCE MATERIALS; *WATER POLLUTION CONTROL; WATER RESOURCES

IDENTIFIER: FEDERAL WATER QUALITY ADMINISTRATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 91P.

ISSUE: RIEDEC71

THIS REPORT DESCRIBES THE PAST ACTIVITIES AND FUTURE PLANS OF THE FEDERAL WATER QUALITY ADMINISTRATION (FWQA). THE FIRST OF THE FOUR SECTIONS IN THE REPORT PROVIDES GENERAL DISCUSSION ABOUT THESE FORMS OF WATER POLLUTION: MUNICIPAL WASTES, INDUSTRIAL WASTES, THERMAL POLLUTION, OIL AND HAZARDOUS SUBSTANCES, MINE DRAINAGE, SEDIMENTATION AND EROSION, FEED LOT POLLUTION AND OTHER AGRICULTURAL WASTE, AND WASTE FROM WATERCRAFT. THE SECOND SECTION, A WATER POLLUTION CONTROL PROGRAM FOR THE 1970'S, CONSIDERS LEGISLATION AND PROGRAMS TO IMPROVE FINANCING OF MUNICIPAL TREATMENT, STANDARDS AND ENFORCEMENT, ASSISTANCE TO THE STATES, AND OTHER FEDERAL ACTIVITIES. THE NEXT SECTION, PROGRAMS FOR WATER POLLUTION CONTROL, CONSTITUTES THE MAJOR PORTION OF THE REPORT, AND CONSIDERS PAST AND PRESENT PROGRAMS AND ISSUES: REGULATORY PROGRAMS; ASSISTANCE PROGRAMS; PLANNING AND BASIC STUDIES; RESEARCH, DEVELOPMENT, AND DEMONSTRATION PROGRAMS; THE HUMAN ELEMENT; AND INTERNATIONAL ACTIVITIES. THE FINAL SECTION REVIEWS THE ORGANIZATION, PERSONNEL, FACILITIES, AND BUDGETARY RESOURCES OF THE FWQA. INCLUDED ARE MANY ILLUSTRATIONS AND PHOTOGRAPHS. (PR)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($1.50)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. FEDERAL WATER QUALITY ADMINISTRATION.

ACCESSION NUMBERS: ED053817 PS005000

PROGRAM AREA: 24

PUBLICATION DATE: AUG 71

TITLE: OPENING UP THE CLASSROOM: A WALK AROUND THE SCHOOL.

PERSONAL AUTHOR: HUCKLESBY, SYLVIA

INSTITUTION CODE: BBB00324

SPONSORING AGENCY CODE: BBB03927; EGK65995

DESCRIPTOR: ART MATERIALS; *DISCOVERY LEARNING; LANGUAGE ARTS; MATHEMATICS MATERIALS; *NATURAL RESOURCES; SCIENCE MATERIALS; SELF DIRECTED CLASSROOMS; *STUDENT MOTIVATION; *TEACHER ROLE; *TEACHING TECHNIQUES

IDENTIFIER: OPEN EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 12P.

ISSUE: RIEDEC71

OPEN EDUCATION PRACTICES ARE ILLUSTRATED IN THIS PAPER IN WHICH CHILDREN'S NATURAL INTEREST IN THE OUTDOOR WORLD IS USED TO OUTLINE LEARNING ACTIVITIES WHICH MIGHT RESULT FROM A SHORT NATURE WALK. THE TEACHERS' OBJECTIVE IS TO HELP THE CHILD LEARN STRATEGIES AND SKILLS WHICH WILL ENABLE HIM TO ACQUIRE, SORT, STORE AND USE INFORMATION, IN CONTRAST TO LEARNING A BODY OF FACTS. THE PAPER ARGUES THAT TEACHERS SHOULD ENCOURAGE THE CHILD THROUGH DIALOGUE AND DISCUSSION, LEADING HIM TO A LEVEL OF INTEREST WHICH WILL THEN SUSTAIN SELF-DIRECTED ACTIVITY. SPECIFICALLY DISCUSSED ARE WAYS TO TEACH MATH CONCEPTS, SCIENCE, LANGUAGE ARTS, AND ART USING VARIOUS NATURAL MATERIALS SUCH AS STONES, STICKS, LEAVES AND FLOWERS. (NH)

CONTRACT NUMBER: OEC-0-70-2623(519)

BUREAU NUMBER: BR-0-0288

INSTITUTION NAME: ERIC CLEARINGHOUSE ON EARLY CHILDHOOD EDUCATION, URBANA, ILL.

SPONSORING AGENCY NAME: NATIONAL CENTER FOR EDUCATIONAL COMMUNICATION (DHEW/OE), WASHINGTON, D.C. DIVISION OF INFORMATION RESOURCES.; OFFICE OF ECONOMIC OPPORTUNITY, WASHINGTON, D.C.

ACCESSION NUMBERS: ED053790 PS004685

PUBLICATION DATE: 70

TITLE: AUTUMN. UNIT 3 CURRICULUM GUIDE.

PERSONAL AUTHOR: CAMP, JANET; AND OTHERS

INSTITUTION CODE: XIE27995

SPONSORING AGENCY CODE: EGK65995; RMQ66000

DESCRIPTOR: *CONCEPT FORMATION; *CURRICULUM GUIDES; EARLY CHILDHOOD EDUCATION; *ECOLOGY; ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; PERCEPTION; *SCIENCE UNITS; *SKILL DEVELOPMENT

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 113P.

ISSUE: RIEDEC71

THIS CURRICULUM GUIDE PRESENTS A 3-WEEK SCIENCE UNIT FOCUSING ON CHANGES WHICH OCCUR IN LIVING THINGS AS A RESULT OF WEATHER CHANGES. THIS UNIT, THE THIRD IN A SERIES, IS INTENDED TO REVIEW AND EXTEND THE UNDERSTANDINGS, CONCEPTS, AND SKILLS WHICH A CHILD HAS DEVELOPED PREVIOUSLY. THE MAJOR CONTENT OBJECTIVES ARE TO DEVELOP THE CHILD'S AWARENESS AND UNDERSTANDING OF CHANGES IN HIS ENVIRONMENT, TO EXPAND HIS CONCEPTS REGARDING PEOPLE AND CLOTHING INTRODUCED IN THE UNIT "ALL ABOUT ME" AND TO DEVELOP UNDERSTANDINGS CONCERNING PLANTS INTRODUCED IN THE UNIT "PLANTS". MAJOR SKILL OBJECTIVES INCLUDE THE DEVELOPMENT AND REFINEMENT OF SENSORY, ABSTRACTING, ASSOCIATION, AND MOTOR RESPONSE SKILLS AS WELL AS CONCEPT DEVELOPMENT. THE UNIT CONTENT IS DESIGNED TO BE ALTERED TO BE APPROPRIATE FOR THE AREA AND THE GROUP OF CHILDREN INVOLVED. PROVIDED IS A LISTING AND EXPLANATION OF EACH OF THE SKILLS TO BE DEVELOPED AND APPROPRIATE INSTRUCTIONAL ACTIVITIES. INSTRUCTIONAL MATERIALS ARE LISTED WITH SOURCES; AND AN APPENDIX PROVIDES ADDITIONAL INSTRUCTIONAL AIDS. (AUTHOR/AJ)

AVAILABILITY: INFORMATION OFFICE, DARCEE, BOX 151, GEORGE PEABODY COLLEGE, NASHVILLE, TENNESSEE 37203 ($1.50)

INSTITUTION NAME: GEORGE PEABODY COLL. FOR TEACHERS, NASHVILLE, TENN. DEMONSTRATION AND RESEARCH CENTER FOR EARLY EDUCATION.

SPONSORING AGENCY NAME: OFFICE OF ECONOMIC OPPORTUNITY, WASHINGTON, D.C.; OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

ACCESSION NUMBERS: ED053018 SO001504

PUBLICATION DATE: JUN 71

TITLE: POPULATION. HEADLINE SERIES.

PERSONAL AUTHOR: OPPENHEIMER, VALERIE K.

INSTITUTION CODE: QPX27225

DESCRIPTOR: CONTRACEPTION; *DEMOGRAPHY; DEVELOPED NATIONS; DEVELOPING NATIONS; ECOLOGICAL FACTORS; ENVIRONMENTAL EDUCATION; *FAMILY PLANNING; HUNGER; INDUSTRIALIZATION; NATIONAL PROGRAMS; *OVERPOPULATION; *POPULATION GROWTH; POPULATION TRENDS; RESOURCE MATERIALS; SECONDARY GRADES; SOCIOECONOMIC INFLUENCES; WORLD PROBLEMS

IDENTIFIER: LIFE STYLES; *POPULATION CONTROL; POPULATION EDUCATION

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 97P.

ISSUE: RIENOV71

USEFUL AS BACKGROUND READING OR SECONDARY CLASSROOM MATERIAL, THIS PAMPHLET REVIEWS SEVERAL DIMENSIONS OF WORLD POPULATION GROWTH AND CONTROL. THE FIRST OF SEVEN CHAPTERS, WORLD POPULATION GROWTH: PAST, PRESENT AND FUTURE, DISCUSSES SOME OF THE REASONS FOR THE GREATLY ACCELERATED GROWTH SINCE 1950, AND POINTS OUT THAT EVEN SIGNIFICANTLY RAPID DECLINES IN FAMILY SIZE WOULD NOT IMMEDIATELY RESULT IN COMPARABLE DECLINES IN POPULATION GROWTH. THE SECOND CHAPTER, THE DEVELOPING COUNTRIES: THE RACE BETWEEN FOOD AND POPULATION, EXAMINES THE GREEN REVOLUTION IN SOME DEPTH. INDUSTRIALIZED SOCIETIES VERSUS THE ENVIRONMENT COMPARES THE ROLE OF POPULATION GROWTH WITH THAT OF LIFE STYLES, AND CONCLUDES THAT WHILE THE SOLUTION TO MOST PROBLEMS CANNOT LIE IN POPULATION CONTROL ALONE, THE CHANCES FOR SOLUTION WOULD BE GREATLY ENHANCED BY MAJOR REDUCTIONS. THE NEXT TWO CHAPTERS EXAMINE THE ROLE OF FAMILY PLANNING PROGRAMS IN DEVELOPING AND INDUSTRIALIZED NATIONS, AND THE INTERACTION OF THESE PROGRAMS WITH VARIOUS PRONATALIST AND SOCIOECONOMIC FACTORS. THE AUTHOR POINTS OUT THAT MIDDLE CLASS AMERICA--NOT THE POOR-- CONTRIBUTES THE BULK OF BIRTHS (68.2%) IN THE UNITED STATES. BEYOND FAMILY PLANNING CONSIDERS OTHER APPROACHES, SUCH AS USE OF ECONOMIC INCENTIVES, FOR POPULATION CONTROL. THE LAST SECTION PROVIDES DISCUSSION QUESTIONS TO HELP PLAN A STUDY-GROUP PROGRAM OR CLASSROOM TEACHING UNIT, AND A SHORT BIBLIOGRAPHY. (JLB)

REPORT NUMBER: R-206

AVAILABILITY: FOREIGN POLICY ASSOCIATION, 345 EAST 46TH STREET, NEW YORK, NEW YORK 10017 ($1.00)

INSTITUTION NAME: FOREIGN POLICY ASSOCIATION, NEW YORK, N.Y.

ACCESSION NUMBERS: ED053016 SO001493

PUBLICATION DATE: 69

TITLE: TECHNOLOGY: THE CULTURE OF MACHINE LIVING. PROGRAM IN AMERICAN HISTORY AND CIVILIZATION.

INSTITUTION CODE: MGG88425

DESCRIPTOR: *AMERICAN CULTURE; *AUTOMATION; CONCEPT TEACHING; DISCUSSION (TEACHING TECHNIQUE); *ENVIRONMENTAL EDUCATION; INQUIRY TRAINING; LEISURE TIME; MASS MEDIA; RESOURCE GUIDES; SECONDARY GRADES; *SOCIAL CHANGE; SOCIAL STUDIES UNITS; SOCIAL SYSTEMS; *SOCIAL VALUES; TECHNOLOGICAL ADVANCEMENT; UNITED STATES HISTORY

IDENTIFIER: VALUES EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 77P.

ISSUE: RIENOV71

THE READINGS IN THIS NARRATIVE UNIT ARE CONCERNED WITH THE MACHINE'S ROLE TODAY AND ITS FUTURE USE IN SHAPING MAN'S ENVIRONMENT. THE GENERAL TEACHING OBJECTIVES ARE TO ENABLE THE STUDENT: 1) TO ADAPT TO A SOCIETY DIRECTED TOWARD TOTAL LIVING, RATHER THAN ONE IN WHICH HE EARNS A LIVING; 2) TO UNDERSTAND THAT UNCONTROLLED TECHNOLOGICAL ADVANCE MAY RESULT IN ALIENATION AND A DEVALUATION OF THE HUMAN WORLD; 3) TO SEE HIMSELF AS THE BENEFICIARY, RATHER THAN THE VICTIM, OF A NEW SOCIAL ENVIRONMENT BROUGHT ABOUT BY AUTOMATION AND INVENTION; AND, 4) TO TRUST IN MAN'S ABILITY TO CHOOSE THE CHANGES THE MACHINE BRINGS. THE SELECTIONS FOR THE UNIT HAVE BEEN ORGANIZED UNDER THREE MAIN TITLES: 1) THE MACHINE: FRIEND OR FOE; 2) AUTOMATION: LIFE WITH A BLACK BOX; AND, 3) THE CULTURE OF MACHINE LIVING. THE FIRST TWO PARTS INCLUDE THE TRADITIONAL "BALLAD OF JOHN HENRY," AN EXPOSITION OF AUTOMATION, AND SELECTED SCIENCE FICTION STORIES OF PREVIOUS YEARS. THE THIRD PART INCLUDES ESSAYS WHICH PRESENT TWO PROBLEMS OF LIVING IN OUR CULTURE: INCREASED LEISURE TIME, AND THE INTRUSIONS IN OUR ENVIRONMENT BY MASS COMMUNICATION AND EXCESSIVE MOBILITY. DISCUSSION QUESTIONS TO ENCOURAGE INQUIRY, A RESOURCE GUIDE, AND A VOCABULARY LIST ARE INCLUDED. SO 001 492 THROUGH SO 001 494 ARE RELATED UNITS. (AUTHOR/SBE)

INSTITUTION NAME: TUFTS UNIV., MEDFORD, MASS. LINCOLN FILENE SYSTEM FOR CITIZENSHIP AND PUBLIC AFFAIRS.

ACCESSION NUMBERS: ED052942 SE011054

PUBLICATION DATE: JUN 70

TITLE: THE SCHOOLS AND THE ENVIRONMENT, A REPORT OF A NATIONAL SEMINAR. AN OCCASIONAL PAPER.

INSTITUTION CODE: BBB01312

DESCRIPTOR: CURRICULUM; *CURRICULUM DEVELOPMENT; *CURRICULUM GUIDES; ECOLOGY; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; POLLUTION; RESOURCE MATERIALS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 33P.

ISSUE: RIENOV71

PRESENTED IS A SUMMARY OF A NATIONAL SEMINAR CONVENED TO PROPOSE GUIDELINES FOR SCHOOLS TO FOLLOW IN INSTITUTING K-12 ENVIRONMENTAL STUDIES. INCLUDED IS THE OUTLINE OF THE ENTIRE K-12 PROGRAM, STRAND IV - ENVIRONMENTAL AND COMMUNITY HEALTH, DEVELOPED FOR THE NISKAYUNA SCHOOL DISTRICT, NEW YORK. IN ADDITION TO COMMENTS BY GUEST SPEAKERS THERE ARE SECTIONS ON HOW TO INSTITUTE CHANGE IN THE SCHOOLS, CARTOONS AS ELEMENTARY TEACHING AIDS, THE MAJOR PROVISIONS OF THE ENVIRONMENTAL QUALITY ACT AND RELATED ISSUES. THE FOLLOWING RESOURCES ARE ALSO PROVIDED: A BRIEF ANNOTATED FILM LIST CONTAINING 16 FILMS WHICH DEAL WITH ECOLOGY AND POLLUTION, INCLUDING INFORMATION FOR ORDERING; AND A LIST OF BOOKS CONCERNED WITH ECOLOGY. (PR)

AVAILABILITY: IDEA EXECUTIVE OFFICES, SUITE 300, 5335 FAR HILLS AVENUE, DAYTON, OHIO 45429

INSTITUTION NAME: INSTITUTE FOR DEVELOPMENT OF EDUCATIONAL ACTIVITIES, DAYTON, OHIO.

ACCESSION NUMBERS: ED052624 EM009085

PUBLICATION DATE: 71

TITLE: FILMS: 1971/72 CATALOG OF FILMS, FILM LOOPS AND FILMSTRIPS FOR SCHOOLS, COLLEGES AND LIBRARIES.

INSTITUTION CODE: BBB05261

DESCRIPTOR: AMERICAN HISTORY; *CATALOGS; CULTURAL EDUCATION; ENVIRONMENTAL EDUCATION; *FILMS; FILMSTRIPS; FILM STUDY; FINE ARTS; INSTRUCTIONAL FILMS; *LANGUAGE ARTS; LITERATURE; READING READINESS; SOCIAL PROBLEMS; *SOCIAL STUDIES; SOUND FILMS; *WORLD HISTORY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 127P.

ISSUE: RIENOV71

THE FILMS IN THIS CATALOG ARE AVAILABLE FOR SALE OR RENT FROM LEARNING CORPORATION OF AMERICA. FOR ELEMENTARY GRADES, FILMS ARE AVAILABLE FOR USE IN THE LANGUAGE ARTS AND SOCIAL STUDIES CLASSES. FOR JUNIOR AND SENIOR HIGH, COLLEGE, AND ADULT COURSES, FILMS ARE LISTED FOR INSTRUCTION IN ART, MUSIC, AND DANCE; ENVIRONMENTAL STUDIES; UNITED STATES HISTORY; WORLD HISTORY AND CULTURE; SOCIAL COMMENT; LITERATURE AND DRAMA; AND FILM AS ART. EACH FILM IS ILLUSTRATED WITH ONE OR TWO STILLS FROM THE FILM, AND A SHORT SYNOPSIS, THE RUNNING TIME, AND PRICE ARE INCLUDED. A SUBJECT INDEX AND AN ALPHABETICAL TITLE INDEX ARE PROVIDED. ALSO LISTED ARE FILMSTRIPS AND FILM LOOPS FOR USE WITH PRIMARY AND YOUNGER CHILDREN. FILMSTRIP SUBJECTS INCLUDE ANIMALS, THE SEA, BASIC CONCEPTS IN SOCIAL STUDIES, LISTENING, STORY TELLING, AND PREPARATION FOR READING. FILMSTRIPS ON INVENTIONS AND TECHNOLOGY IN AMERICAN HISTORY ARE INTENDED FOR INTERMEDIATE GRADES THROUGH HIGH SCHOOL. (JK)

AVAILABILITY: LEARNING CORPORATION OF AMERICA, 711 FIFTH AVENUE, NEW YORK, N.Y. 10022 ($1.50)

INSTITUTION NAME: LEARNING CORP. OF AMERICA, NEW YORK, N.Y.

ACCESSION NUMBERS: ED052105 SO001468

PUBLICATION DATE: 70

TITLE: THE ECOLOGY CONTROVERSY: OPPOSING VIEWPOINTS. CRITICAL ISSUES SERIES.

PERSONAL AUTHOR: MCCUEN, GARY E., ED.; BENDER, DAVID L., ED.

DESCRIPTOR: CASE STUDIES; DISCUSSION (TEACHING TECHNIQUE); *ECOLOGY; *ENVIRONMENTAL EDUCATION; POLLUTION; POPULATION TRENDS; *PROBLEM SOLVING; PUBLIC AFFAIRS EDUCATION; QUESTIONING TECHNIQUES; RADIATION EFFECTS; READING MATERIALS; SECONDARY GRADES; *SOCIAL PROBLEMS; *SOCIAL STUDIES UNITS; SOCIAL VALUES; SOCIOECONOMIC INFLUENCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 101P.; VOLUME 3

ISSUE: RIEOCT71

ECOLOGICAL PROBLEMS ARE EXPLORED IN THIS BOOK OF SIXTEEN STUDENT READINGS AND EXERCISES AIMED AT DEVELOPING AND APPLYING CRITICAL THINKING SKILLS. THE READINGS, MOSTLY EXTRACTS FROM BOOKS AND PERIODICALS, ARE INTRODUCED BY THE EDITOR AND ACCOMPANIED BY QUESTIONS. CHAPTER I, THE POPULATION CONTROVERSY, INCLUDES SELECTIONS FROM PAUL EHRLICH'S THE POPULATION BOMB, AND POPE PAUL VI'S ENCYCLICAL ON BIRTH CONTROL. CHAPTER II, THE NUCLEAR RADIATION CONTROVERSY, INCLUDES A CASE STUDY INVOLVING LITIGATION BY A STATE AGAINST THE ATOMIC ENERGY COMMISSION. CHAPTER III, THE AIR POLLUTION CONTROVERSY, INCLUDES ARTICLES FROM NATION'S BUSINESS, A U. S. CHAMBER OF COMMERCE PUBLICATION, THE PROGRESSIVE, AND A PUBLICATION OF THE INTER-INDUSTRY EMISSION CONTROL PROGRAM. CHAPTER IV, THE RELIGIOUS, POLITICAL AND ECONOMIC CONSEQUENCES OF THE ECOLOGY CONTROVERSY, INCLUDES SELECTIONS FROM SEVERAL UNIVERSITY PROFESSORS. A LIST OF SOURCES FOR MORE ECOLOGICAL INFORMATION IS APPENDED. RELATED DOCUMENTS OF INTEREST ARE: SO 001 466, SO 001 467, AND SO 001 469. (AUTH/DJB)

AVAILABILITY: GREENHAVEN PRESS, BOX 831, ANOKA, MINNESOTA 55303 (PAPERBACK, $1.95)

ACCESSION NUMBERS: ED052070 SO001009

PUBLICATION DATE: 71

TITLE: OUTLOOK. ISSUE NO. 2.

INSTITUTION CODE: BBB05109

SPONSORING AGENCY CODE: QPX27000

DESCRIPTOR: CHILD DEVELOPMENT; CULTURAL EDUCATION; CURRICULUM DEVELOPMENT; EDUCATIONAL TRENDS; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; *HUMANITIES INSTRUCTION; *INTERDISCIPLINARY APPROACH; LEARNING PROCESSES; *NEWSLETTERS; RESOURCE MATERIALS; *SCIENCE EDUCATION; TEACHER EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 38P.

ISSUE: RIEOCT71

THIS SEMI-ANNUAL PUBLICATION IS CONCERNED WITH SHARING IDEAS ON CHILDHOOD EDUCATION BY PRINTING: 1) ARTICLES WHICH DEAL, IN LAYMAN'S TERMS, WITH ALL AREAS OF STUDY REPRESENTING ARTISTS, MATHEMATICIANS, BIOLOGISTS, PHYSICISTS, PHILOSOPHERS, AND TEACHERS OF CHILDREN; 2) LETTERS FROM READERS ON TOPICS OF GENERAL INTEREST; AND, 3) REVIEWS OF TIMELY BOOKS, FILMS, OR OTHER MATERIALS. IN THIS ISSUE, ARTICLES ARE DEVOTED TO: 1) ART TEACHING; 2) A SIOUX RESERVATION LEARNING CENTER, 3) EDUCATIONAL LANGUAGE GAMES, 4) EXCERPTS FROM PLATO, 5) CURRICULUM CONTENT AND THE TEACHING-LEARNING PROCESS; 6) A CONVERSATION WITH A CHILD; AND 7) A BOOK REVIEW. NOTES ON CONTRIBUTORS ARE INCLUDED. THOSE INTERESTED IN RECEIVING THE NEWSLETTER REGULARLY SHOULD REQUEST THAT THEIR NAME BE PLACED ON THE MAILING LIST. (AUTHOR/JSB)

AVAILABILITY: MOUNTAIN VIEW CENTER FOR ENVIRONMENTAL EDUCATION, UNIVERSITY OF COLORADO, 1441 BROADWAY, BOULDER, COLORADO 80302

INSTITUTION NAME: COLORADO UNIV., BOULDER. MOUNTAIN VIEW CENTER FOR ENVIRONMENTAL EDUCATION.

SPONSORING AGENCY NAME: FORD FOUNDATION, NEW YORK, N.Y.

ACCESSION NUMBERS: ED052052 SE012036

PUBLICATION DATE: 71

TITLE: WHAT IS THE E.Q. (ENVIRONMENTAL QUALITY) OF YOUR SCHOOL?

DESCRIPTOR: *ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; FUNDAMENTAL CONCEPTS; *INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; *POLLUTION; RESOURCE MATERIALS; *TEACHING GUIDES; UNIT PLAN

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 46P.

ISSUE: RIEOCT71

DESIGNED FOR ELEMENTARY SCHOOL USE, THIS MANUAL PROVIDES TEACHERS WITH NUMEROUS EXPERIMENTS AND ACTIVITIES TO HELP CHILDREN UNDERSTAND AND EVALUATE THE SURROUNDING ENVIRONMENT. ACTIVITIES ARE PLANNED TO EXPLORE MANY ASPECTS OF THE ENVIRONMENTAL PROBLEM. SUGGESTIONS FOR INVOLVEMENT IN LANGUAGE ARTS, SOCIAL STUDIES, AND MATHEMATICS ARE INCLUDED ALONG WITH THE SCIENCE ACTIVITIES. UNITS OF STUDY EMPHASIZE AIR POLLUTION, WATER POLLUTION, LITTER, LAND USE FOR SCHOOL YARD AND NEIGHBORHOOD, AND SPECIAL PROBLEMS CONCERNING RAT CONTROL, ODORS FROM FACTORIES, VACANT HOUSES, JUNK, AND HAZARDS OF SIDEWALKS, TRAFFIC, AND DUMPS. EACH UNIT OFFERS BACKGROUND INFORMATION ON THE SUBJECT, LEARNING ACTIVITIES REQUIRING LITTLE OR NO EQUIPMENT, PROCEDURES TO CARRY OUT THE ACTIVITY AND QUESTIONS TO CONSIDER FOLLOWING COMPLETION OF THE ACTIVITY. A SUMMARY SHEET IS ALSO PROVIDED LISTING THE MAJOR CONCEPT OR THEME OF THE UNIT, PURPOSE OF THE UNIT, AND QUESTIONS OR STATEMENTS TO DISCUSS AND INVESTIGATE WHILE INTRODUCING, DEVELOPING, EXTENDING AND FIXING THE CONCEPT. (BL)

ACCESSION NUMBERS: ED052048 SE012008

PUBLICATION DATE: 71

TITLE: LET'S TALK ABOUT YOU AND SHARKS, AMERICAN OCEANOGRAPHY SPECIAL EDUCATIONAL NEWSLETTER.

PERSONAL AUTHOR: KRAFT, THOMAS L.: MILOY, LEATHA

INSTITUTION CODE: BBB05134

DESCRIPTOR: *INSTRUCTIONAL MATERIALS: JUNIOR HIGH SCHOOL STUDENTS: MARINE BIOLOGY: NEWSLETTERS: *OCEANOLOGY: PERIODICALS: *SAFETY EDUCATION: SECONDARY SCHOOL STUDENTS: *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 8P.

ISSUE: RIEOCT71

THIS SPECIAL EDUCATIONAL NEWSLETTER OF THE AMERICAN SOCIETY FOR OCEANOGRAPHY PRESENTS INFORMATION ON MARINE ORIENTED SUBJECTS, PRIMARILY FOR READING BY JUNIOR HIGH AND SECONDARY SCHOOL STUDENTS. MAJOR ARTICLES CONSIDER THE HABITS AND STINGING EFFECTS OF SHARKS, JELLY FISH, AND STING RAYS, AND WHAT ONE SHOULD DO IF STUNG BY THESE FISH WHILE SWIMMING. ADDITIONAL FEATURE ARTICLES FOR THE SUMMER SEASON EXAMINE THE PRESENCE AND DANGERS OF RIP TIDES OR CURRENTS AND PLEASURE BOATING RULES AND SAFETY. OTHER ARTICLES DISCUSS TREATMENT FOR DROWNING, USE OF A SPEAR FOR FISHING, THE IMPLICATIONS OF USING THE DEEP OCEAN FOR DISPOSAL OF ORGANIC WASTES, HYPERBARIC MEDICINE, CATFISH, AND TREASURE HUNTING ON THE SHORE AND AT SEA. (BL)

AVAILABILITY: AMERICAN SOCIETY FOR OCEANOGRAPHY, 1900 "L" STREET, N.W., WASHINGTON, D.C. 20036

JOURNAL CITATION: AMERICAN OCEANOGRAPHY: V5 N5 L97L

INSTITUTION NAME: AMEICAN SOCIETY FOR OCEANOGRAPHY, WASHINGTON, D.C.

ACCESSION NUMBERS: ED052035 SE011372

PUBLICATION DATE: 70

TITLE: POLLUTION PROBE.

PERSONAL AUTHOR: CHANT, DONALD A.

DESCRIPTOR: COMMUNITY ACTION; *ENVIRONMENTAL INFLUENCES; *ESSAYS; NATURAL RESOURCES; *POLLUTION; RESOURCE MATERIALS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 207P.

ISSUE: RIEOCT71

THIS BOOK IS WRITTEN AS A STATEMENT OF CONCERN ABOUT POLLUTION BY MEMBERS OF POLLUTION PROBE, A CITIZENS' ANTI-POLLUTION GROUP IN CANADA. ITS PURPOSE IS TO CREATE PUBLIC AWARENESS AND PRESSURE FOR THE EVENTUAL SOLUTION TO POLLUTION PROBLEMS. THE NEED FOR EFFECTIVE GOVERNMENT POLICIES TO CONTROL THE POPULATION EXPLOSION, CONSERVE NATURAL RESOURCES, LIMIT UNCONTROLLED AND DESTRUCTIVE ECONOMIC GROWTH, AND PROMOTE AN EFFECTIVE NATIONAL STRATEGY FOR ENVIRONMENTAL QUALITY MANAGEMENT REFLECT THE MAJOR CONCERNS OF THE WRITERS. ESSAYS ARE ENTITLED: THE LIVING SPACESHIP, CONSEQUENCES OF IMBALANCE, THE AIR WE BREATHE, THE WATER WE DRINK, PESTICIDE POISONS, NOISE POLLUTION, MACBARE, RADIATION POLLUTION, POPULATION AND THE GROWTH ETHOS, POLITICS OF POLLUTION, CORPORATE MORALITY, NORTHERN PRESSURES, COMMUNICATION AND EDUCATION, RESOURCE MANAGEMENT, ACTION PROGRAMS, "DO IT" KIT, AND CODA-A NEW ETHIC. A SELECTED READING LIST IS INCLUDED. (BL)

AVAILABILITY: NEW PRESS, 300 WEST ADAMS, CHICAGO, ILLINOIS 60606 ($2.50)

ACCESSION NUMBERS: ED052034 SE011371

PUBLICATION DATE: APR 70

TITLE: UNDERGRADUATE EDUCATION IN ENVIRONMENTAL STUDIES, A CONFERENCE REPORT.

PERSONAL AUTHOR: REINERS, WILLIAM A.; SMALLWOOD, FRANK

INSTITUTION CODE: PTF20250

DESCRIPTOR: COLLEGE PROGRAMS; CONFERENCE REPORTS; CURRICULUM; *CURRICULUM DEVELOPMENT; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; PROGRAM DESCRIPTIONS; *PROGRAM DEVELOPMENT; PROGRAMS; *UNDERGRADUATE STUDY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 100P.

ISSUE: RIEOCT71

THE NINE PAPERS INCLUDED IN THIS VOLUME WERE PRESENTED DURING THE "WORKING CONFERENCE ON UNDERGRADUATE EDUCATION IN ENVIRONMENTAL STUDIES" AT DARTMOUTH COLLEGE. THE RATIONALE AND STRATEGY FOR ENVIRONMENTAL STUDIES AT DARTMOUTH COLLEGE ARE CONSIDERED IN PART ONE. DETAILS OF THE PROPOSED PROGRAMS AT BOTH DARTMOUTH COLLEGE AND WILLIAMS COLLEGE ARE REVIEWED IN THE CONCLUDING SECTION. THE MAIN BODY OF THE VOLUME CONSISTS OF FOUR WORKING PAPERS, EACH DESIGNED TO PROVIDE A SPECIFIC IN-DEPTH ANALYSIS OF A KEY ISSUE RELATED TO ENVIRONMENTAL EDUCATION: BIOECONOMICS--THE SCIENCE OF SURVIVAL: A PROPOSED PHILOSOPHY FOR THE PROGRAM; BASIC APPROACHES TO THE ORGANIZATION OF A CURRICULUM; ENVIRONMENTAL CENTERS IN A CROWDED LANDSCAPE: POLICIES AND PITFALLS IN ORGANIZING A PROGRAM; AND A CASE STUDY OF NEW ENGLAND: EXAMPLES OF PUBLIC AND PRIVATE SUPPORT FOR ENVIRONMENTAL EDUCATION. TWO ADDITIONAL CONFERENCE PAPERS ARE INCLUDED: MAN AND NATURE ON COLLISION COURSE; AND ENVIRONMENTAL DIALOGUE: THE NEW EDUCATION. (PR)

AVAILABILITY: PUBLIC AFFIARS CENTER & DARTMOUTH BICENTENNIAL YEAR COMMITTEE, DARTMOUTH COLLEGE, HANOVER, NEW HAMPSHIRE ($2.50)

INSTITUTION NAME: DARTMOUTH COLL., HANOVER, N.H.

ACCESSION NUMBERS: ED052029 SE011351

PUBLICATION DATE: JAN 71

TITLE: OUTDOOR EDUCATION, CAMP CASEY.

PERSONAL AUTHOR: STANSBERRY, STEVE; AND OTHERS

INSTITUTION CODE: ZB089258

DESCRIPTOR: *CURRICULUM GUIDES; FUNDAMENTAL CONCEPTS; *GRADE 5; INSTRUCTION; *LEARNING ACTIVITIES; NATURAL RESOURCES; *OUTDOOR EDUCATION; TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 163P.

ISSUE: RIEOCT71

A CURRICULUM GUIDE FOR THE CAMP CASEY OUTDOOR EDUCATION PROGRAM IS CONTAINED IN THIS DOCUMENT. DESIGNED FOR FIFTH GRADE STUDENTS AND TEACHERS IN NORTHSHORE SCHOOL DISTRICT, BOTHELL, WASHINGTON, IT EMPHASIZES LEARNING ACTIVITIES FOR USE IN THE OUTDOORS. GENERAL UNDERSTANDINGS RELEVANT TO THE OBJECTIVES OF THE PROGRAM FORM THE FRAME INTO WHICH THE ACTIVITIES ARE PLACED. MOST ACTIVITIES ARE APPROPRIATE FOR USE IN SCHOOL OR COMMUNITY LOCALES AND CAN SERVE AS PREPARATION FOR EXPERIENCES AT A CAMPSITE. SECTION I ENUMERATES ITEMS TO CONSIDER IN PREPARING THE STUDENT FOR A CAMPING/OUTDOOR EDUCATION SITUATION. REMAINING SECTIONS DEAL WITH STUDY UNITS IN GEOLOGY, HISTORY AND SOCIAL STUDIES, SURVIVAL AND SIMPLE OUTDOOR NAVIGATION, SALTWATER ECOLOGY, AND PLANTS AND ANIMALS ABOVE THE TIDAL ZONE. INDIVIDUAL UNITS PRESENT SEVERAL GENERAL UNDERSTANDINGS EACH WITH SPECIALIZED BACKGROUND INFORMATION AND SUGGESTED ACTIVITIES. STUDENT WORKSHEETS, DIAGRAMS, VOCABULARY LISTS, REFERENCE LISTS, AND TEACHING AIDS COMPLETE THE GUIDE. (BL)

INSTITUTION NAME: NORTHSHORE SCHOOL DISTRICT 417, BOTHELL, WASH.

ACCESSION NUMBERS: ED052019 SE011129

PUBLICATION DATE: DEC 70

TITLE: EDUCATION AND THE ENVIRONMENTAL CRISIS.

PERSONAL AUTHOR: EVANS, JEREMY, ED.; BOYDEN, STEPHEN, ED.

INSTITUTION CODE: BBB05085

DESCRIPTOR: BIOLOGY; COLLEGE SCIENCE; CONFERENCE REPORTS; *CURRICULUM; ELEMENTARY EDUCATION; *ENVIRONMENTAL EDUCATION; MASS MEDIA; POLLUTION; *PROGRAM DESCRIPTIONS; SECONDARY EDUCATION

IDENTIFIER: AUSTRALIA

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 117P.

ISSUE: RIEOCT71

THESE PROCEEDINGS OF A CONFERENCE SPONSORED BY THE INTERNATIONAL BIOLOGICAL PROGRAMME COMMITTEE OF THE AUSTRALIAN ACADEMY OF SCIENCE CONTAIN THE SIX MAJOR PAPERS PRESENTED TO THE CONFERENCE. AN OVERVIEW OF THE PERSPECTIVES AND RESPONSIBILITIES RESULTING FROM ENVIRONMENTAL CHANGE IS FOLLOWED BY AN OUTLINE OF A STRATEGY FOR CURRICULUM DEVELOPMENT AND IMPLEMENTATION IN ENVIRONMENTAL EDUCATION AT ELEMENTARY AND SECONDARY LEVELS. THREE OTHER PAPERS ARE CONCERNED WITH BIOLOGICAL EDUCATION; ONE AN ANALYSIS OF CURRICULA AND TEXTBOOKS USED IN AUSTRALIAN SCHOOLS FROM THE POINT OF VIEW OF RELEVANCE TO ENVIRONMENTAL ISSUES; ONE AN ACCOUNT OF A BIOLOGICALLY BASED ENVIRONMENTAL EDUCATION COURSE FOR NON-BIOLOGISTS AT UNIVERSITY LEVEL; AND ONE THE DISCUSSION OF TEACHING BIOLOGY TO INFANTS. A PAPER ON THE RESPONSIBILITIES OF THE MASS MEDIA FOR PRODUCING AN GROUPS ON "ENVIRONMENTAL EDUCATION IN THE SCHOOLS," "ENVIRONMENTAL EDUCATION IN THE COMMUNITY," "ENVIRONMENTAL EDUCATION AT THE TERTIARY LEVEL" AND "THE EDUCATION OF ENVIRONMENTAL SCIENTISTS" CONCLUDE THE REPORT. A LIST OF CONFERENCE PARTICIPANTS IS APPENDED. (AL)

INSTITUTION NAME: AUSTRALIAN ACADEMY OF SCIENCE, CANBERRA.

ACCESSION NUMBERS: ED052012 SE010766

PUBLICATION DATE: 69

TITLE: THE EFFECT OF AN EQUILIBRATED METHODOLOGY ON THE ACQUISITION OF THE CONCEPT-CONSERVATION OF QUANTITY.

PERSONAL AUTHOR: BAPTISTE, HANSOM PRENTICE, JR.

INSTITUTION CODE: JQB36825

DESCRIPTOR: *COGNITIVE DEVELOPMENT; *CONSERVATION (CONCEPT); *INSTRUCTION; PRESCHOOL CHILDREN; PRESCHOOL TESTS; RESEARCH; SCIENCE EDUCATION; TEACHING TECHNIQUES

IDENTIFIER: PIAGET

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 152P.

ISSUE: RIEOCT71

THE PIAGETIAN OPERATIONS OF MULTIPLE CLASSIFICATION, MULTIPLE ATTRIBUTES, SERIATION AND REVERSIBILITY WERE USED TO DEVELOP AN "EQUILIBRATED METHODOLOGY" TO HELP PRESCHOOL CHILDREN CONSERVE QUANTITY. RANDOMLY ASSIGNED EXPERIMENTAL AND CONTROL GROUPS WITHIN MORNING AND AFTERNOON CLASSES AT A NURSERY SCHOOL WERE USED TO EVALUATE THE EFFECTIVENESS OF THE TEACHING. THERE WERE NO SIGNIFICANT DIFFERENCES BETWEEN GROUPS OR CLASSES ON INDIVIDUALLY ADMINISTERED PRE-TESTS CONTAINING FOUR PIAGETIAN TASKS. THERE WERE NO SIGNIFICANT DIFFERENCES OR INTERACTIONS BETWEEN CLASSES, SEX OR AGE AND POST-TESTS USING THE SAME TASKS. HOWEVER, THERE WAS A SIGNIFICANT DIFFERENCE IN FAVOR OF THE EXPERIMENTAL GROUP ON THE POST-TEST, SUPPORTING THE WORTH OF THE INSTRUCTIONAL TECHNIQUE. A 2 X 2 FACTORIAL DESIGN WAS USED IN THE ANALYSES. (AL)

AVAILABILITY: UNIVERSITY MICROFILMS, 300 NORTH ZEEB ROAD, ANN ARBOR, MICHIGAN 48106 (ORDER NO. 70-7967 M-$4.00 X-$10.00)

INSTITUTION NAME: INDIANA UNIV., BLOOMINGTON.

ACCESSION NUMBERS: ED051999 SE010114

PUBLICATION DATE: 69

TITLE: NEED, NATIONAL ENVIRONMENTAL EDUCATION DEVELOPMENT.

PERSONAL AUTHOR: HARTZOG, GEORGE B.

INSTITUTION CODE: BBB05084

SPONSORING AGENCY CODE: BBB05083

DESCRIPTOR: ART; *ELEMENTARY EDUCATION; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *INTERDISCIPLINARY APPROACH; MATHEMATICS; POETRY; *READING MATERIALS; SOCIAL STUDIES

IDENTIFIER: NATIONAL ENVIRONMENTAL EDUCATION DEVELOPMENT; NEED

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 71P.

ISSUE: RIEOCT71

INCLUDED ARE CLASSROOM ACTIVITIES RELATED TO ENVIRONMENTAL EDUCATION FOR FIFTH AND SIXTH GRADE STUDENTS INTENDED TO APPEAL TO THE STUDENTS' IMAGINATION. READINGS, PROBLEMS, AND QUESTIONS ARE PRESENTED TO PROVOKE STUDENT THINKING, FEELING, AND EXPRESSING. EACH PAGE IS UNIQUELY DESIGNED WITH MULTIPLE SIZE, COLORED PRINTING, COLORED DIAGRAMS, AND PHOTOGRAPHS. A SECTION IS DEVOTED TO EACH OF FOUR BROAD SUBJECT AREAS: COMMUNICATION, SOCIAL STUDIES, THE ARTS, AND MATHEMATICS. (PR)

AVAILABILITY: EDUCATIONAL CONSULTING SERVICE, 372 VILLAGE SQUARE, ORINDA, CALIFORNIA 94563

INSTITUTION NAME: EDUCATIONAL CONSULTING SERVICE, ORINDA, CALIF.

SPONSORING AGENCY NAME: NATIONAL PARK FOUNDATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED051996 SE007643

PUBLICATION DATE: FEB 68

TITLE: FREE AND INEXPENSIVE MATERIALS AVAILABLE FOR TEACHING CONSERVATION EDUCATION: SOIL AND WATER.

PERSONAL AUTHOR: COUSINS, GENEVIEVE; SMITH, BONNIE MAE

INSTITUTION CODE: LJN26078

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *CONSERVATION EDUCATION; EARTH SCIENCE; ELEMENTARY SCHOOL SCIENCE; *RESOURCE MATERIALS; *SOIL CONSERVATION; *WATER RESOURCES

IDENTIFIER: NORTH LOUISIANA SUPPLEMENTARY EDUCATION CENTER

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 34P.

ISSUE: RIEOCT71

THIS PUBLICATION WAS PREPARED TO ACCOMPANY THE REVISED "SOIL AND WATER SECTION" OF "GUIDES FOR TEACHER CONSERVATION IN THE SCHOOLS OF LOUISIANA." ITS PURPOSE IS TO PROVIDE TEACHERS WITH INFORMATION ABOUT POSSIBLE SOURCES OF TEACHING MATERIALS THAT CAN BE OBTAINED FREE OR WITH ONLY A SMALL EXPENDITURE OF FUNDS. EACH ITEM LISTED IS ANNOTATED FOR THE PURPOSE OF PROVIDING TEACHERS WITH INFORMATION ON WHICH TO BASE JUDGMENTS AS TO WHAT WILL BEST SERVE THEIR PURPOSES. PAMPHLETS, POSTERS, CHARTS, AND MAPS ARE AMONG THE ITEMS ANNOTATED. THERE IS A SOURCE INDEX WHICH INCLUDES THE ADDRESS OF EACH SOURCE. (BP)

INSTITUTION NAME: NATCHITOCHES PARISH SCHOOL BOARD, LA.

ACCESSION NUMBERS: ED051995 SE007641

PUBLICATION DATE: NOV 68

TITLE: FREE AND INEXPENSIVE MATERIALS FOR TEACHING CONSERVATION: WILDLIFE AND FISH SECTION.

PERSONAL AUTHOR: COUSINS, GENEVIEVE; SMITH, BONNIE MAE

INSTITUTION CODE: LJN26078

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIOLOGY; CHARTS; *CONSERVATION EDUCATION; *ECOLOGY; INSTRUCTIONAL MATERIALS; MAPS; PAMPHLETS; SECONDARY SCHOOL SCIENCE; WILDLIFE MANAGEMENT

IDENTIFIER: LOUISIANA HIGH SCHOOL CONSERVATION CURRICULUM

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 37P.

ISSUE: RIEOCT71

THIS PUBLICATION WAS PREPARED TO ACCOMPANY THE REVISED "WILDLIFE AND FISH SECTION" OF "A GUIDE FOR TEACHING CONSERVATION EDUCATION IN THE SCHOOLS OF LOUISIANA." ITS PURPOSE IS TO PROVIDE TEACHERS WITH INFORMATION ABOUT POSSIBLE SOURCES OF TEACHING MATERIALS THAT CAN BE OBTAINED FREE OR WITH ONLY A SMALL EXPENDITURE OF FUNDS. EACH ITEM LISTED IS ANNOTATED WITH THE PURPOSE OF PROVIDING TEACHERS WITH INFORMATION ON WHICH TO BASE JUDGMENTS AS TO WHAT WILL BEST SERVE THEIR PURPOSES. PAMPHLETS, POSTERS, CHARTS, MAPS, AND PUBLICATIONS IN SERIES ARE AMONG THE ITEMS ANNOTATED. THERE IS A SOURCE INDEX WHICH INCLUDES THE ADDRESS OF EACH SOURCE. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BR)

GRANT NUMBER: OEG-3-7-703577-4862

INSTITUTION NAME: NATCHITOCHES PARISH SCHOOL BOARD, LA.

ACCESSION NUMBERS: ED051993 SE007639

PUBLICATION DATE: 67

TITLE: A GUIDE FOR TEACHING CONSERVATION AND RESOURCE-USE EDUCATION IN THE SCHOOLS OF LOUISIANA, FOREST SECTION.

PERSONAL AUTHOR: WARE, GEORGE; MCCOLLUM, HOWARD P.

INSTITUTION CODE: BBB05136

DESCRIPTOR: BIOLOGY; *CONSERVATION EDUCATION; *ELEMENTARY SCHOOL SCIENCE; FORESTRY; JUNIOR HIGH SCHOOLS; *SCIENCE ACTIVITIES; *SECONDARY SCHOOL SCIENCE; *TEACHING GUIDES

IDENTIFIER: LOUISIANA

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 49P.

ISSUE: RIEOCT71

THESE GUIDES FOR TEACHING CONSERVATION AND RESOURCE-USE EDUCATION GIVE A SEQUENTIAL TREATMENT OF CONSERVATION CONCEPTS FROM PRIMARY THROUGH JUNIOR HIGH SCHOOL GRADES. THERE ARE FOUR SECTIONS, EACH SEQUENTIAL: THIS GUIDE COVERS THE "FOREST" SECTION (OTHERS ARE "SOIL AND WATER," "MINERALS" AND "WILDLIFE"). TEN MAJOR CONCEPTS ARE ARRANGED IN A SEQUENCE WHICH IS REPEATED AT THREE LEVELS: PRIMARY, INTERMEDIATE, AND JUNIOR HIGH. THE CONCEPTS ARE "IDENTITY," "PARTS," "LIFE NEEDS," "REPRODUCTION," "COMMUNITY," "ENEMIES," "RECREATION," "WILDLIFE," "CONSERVATION," AND "UTILIZATION." FOR EACH LEVEL THE CONCEPT IS STATED AS IT APPLIES AT THAT LEVEL, THEN A PARAGRAPH OF DISCUSSION OF THE CONCEPT DIRECTED TO THE TEACHER IS FOLLOWED BY SUGGESTED ACTIVITIES FOR STUDENTS AND A STATEMENT OF POSSIBLE OUTCOMES. A GLOSSARY OF TERMS IS GIVEN, AND APPENDICES GIVE INSTRUCTIONS FOR MAKING PAPER BY HAND, BUILDING, STOCKING AND CARING FOR TERRARIUMS, AND CONSTRUCTING A PEGBOARD MODEL OF A FOREST. (EB)

INSTITUTION NAME: NORTH LOUISIANA SUPPLEMENTARY EDUCATION CENTER, NATCHITOCHES.

ACCESSION NUMBERS: ED051992 SE007638

PUBLICATION DATE: APR 69

TITLE: READINGS IN WILDLIFE AND FISH CONSERVATION, HIGH SCHOOL CONSERVATION CURRICULUM PROJECT.

PERSONAL AUTHOR: ENSMINGER, JACK

INSTITUTION CODE: BBB05136

DESCRIPTOR: BIOLOGY; *CONSERVATION EDUCATION; *ECOLOGY; INSTRUCTIONAL MATERIALS; *READING MATERIALS; SCIENCE MATERIALS; SECONDARY SCHOOL SCIENCE; *TEACHING GUIDES; WILDLIFE MANAGEMENT

IDENTIFIER: LOUISIANA HIGH SCHOOL CONSERVATION CURRICULUM

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 152P.

ISSUE: RIEOCT71

THIS PUBLICATION IS A TENTATIVE EDITION OF READINGS ON WILDLIFE AND FISH CONSERVATION IN LOUISIANA, AND AS SUCH IT FORMS PART OF ONE OF THE FOUR UNITS OF STUDY DESIGNED FOR AN EXPERIMENTAL HIGH SCHOOL COURSE, THE "HIGH SCHOOL CONSERVATION CURRICULUM PROJECT." THE OTHER THREE UNITS ARE CONCERNED WITH FOREST CONERVATION, SOIL AND WATER CONSERVATION, AND MINERAL CONSERVATION. EACH OF THESE UNITS OF STUDY IS DESIGNED TO ENCOMPASS A NINE WEEK PERIOD OF TIME. THIS PUBLICATION INCLUDES A TEACHER'S GUIDE SECTION, AND SECTIONS ON THE COASTAL RESOURCES OF LOUISIANA, OYSTERS, BASIC ECOLOGY, MARSH MANAGEMENT OF WILDLIFE, THE ALLIGATOR, LOUISIANA SQUIRRELS, RABBITS, BLACK BEAR, WHITE-TAILED DEER, AND WILD TURKEY. SOME OF THE READINGS HAVE BEEN TAKEN FROM JOURNALS AND OTHERS APPEAR TO HAVE BEEN WRITTEN ESPECIALLY FOR THIS PUBLICATION. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BR)

GRANT NUMBER: OEG-3-7-703577-4862

INSTITUTION NAME: NORTH LOUISIANA SUPPLEMENTARY EDUCATION CENTER, NATCHITOCHES.

ACCESSION NUMBERS: ED051874 PS004758

PUBLICATION DATE: 29 APR 71

TITLE: A COMPARISON STUDY OF THE COGNITIVE DEVELOPMENT OF DISADVANTAGED FIRST GRADE PUPILS (AS MEASURED BY SELECTED PIAGETIAN TASKS).

PERSONAL AUTHOR: HILLIARD, EVERETT

INSTITUTION CODE: CIO06559

DESCRIPTOR: *COGNITIVE DEVELOPMENT; COGNITIVE TESTS; *CONSERVATION (CONCEPT); *DISADVANTAGED YOUTH; *EXPERIMENTAL TEACHING; GRADE 1; HYPOTHESIS TESTING; LANGUAGE DEVELOPMENT; MATHEMATICAL CONCEPTS; MEXICAN AMERICANS

IDENTIFIER: *PIAGET

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 11P.; PAPER PRESENTED AT THE 49TH ANNUAL MEETING OF THE CALIFORNIA EDUCATIONAL RESEARCH ASSOCIATION, SAN DIEGO, CALIFORNIA, APRIL 29-30, 1971

ISSUE: RIEOCT71

THE PURPOSE OF THIS STUDY WAS TO TEST THE EFFECTS OF AN EXPERIMENTAL METHOD OF INSTRUCTION UPON THE COGNITIVE DEVELOPMENT OF DISADVANTAGED FIRST GRADE CHILDREN. THE HYPOTHESES FORMULATED WERE: (1) THERE IS NO DIFFERENCE BETWEEN THE MEDIANS OF THE CONTROL AND EXPERIMENTAL GROUPS OR BETWEEN THE NUMBERS OF SUBJECTS IN EACH GROUP PLACING AT THE VARIOUS STAGES OF CONSERVATION ON CONSERVATION OF SUBSTANCE TASKS, CONSERVATION OF QUANTITY (DISCONTINUOUS) TASKS, AND SERIATION TASKS; AND (2) THERE IS NO DIFFERENCE BETWEEN THE MEDIANS OF THE CONTROL AND EXPERIMENTAL GROUPS ON THE NUMBERS SUBTEST OF THE METROPOLITAN READINESS TESTS. THE SAMPLE CONSISTED OF 38 FIRST GRADE PUPILS (MEAN AGE 6 YEARS AND 3 MONTHS AT THE BEGINNING OF THE YEAR) PRIMARILY FROM MEXICAN-AMERICAN, LOW INCOME HOMES. THE STUDENTS WERE PRETESTED IN SEPTEMBER. NEAR THE END OF THE YEAR, A 6-WEEK TRAINING PROGRAM CONSISTING OF 30-MINUTE DAILY LESSONS USING PIAGET'S TASKS WAS ADMINISTERED TO THE EXPERIMENTAL GROUP BY TEACHER AIDES. THE CONTROLS WERE SIMULTANEOUSLY GIVEN A TRADITIONAL ARITHMETIC PROGRAM. THE EXPERIMENTAL PROGRAM EMPHASIZED CHILDREN'S MANIPULATION AND CLASSIFICATION OF MATERIALS AND THE DEVELOPMENT OF LANGUAGE AND CONCEPTS OF NUMBER, SIZE, WEIGHT AND LENGTH AS WELL AS AN AWARENESS OF REVERSIBILITY IN RELATION TO MANY DIFFERENT KINDS OF TRANSFORMATIONS. BOTH HYPOTHESES WERE SUPPORTED. (AUTHOR/AJ)

INSTITUTION NAME: ONTARIO-MONTCLAIR SCHOOL DISTRICT, ONTARIO, CALIF.

ACCESSION NUMBERS: ED051764 HE002267

PUBLICATION DATE: MAR 71

TITLE: PROCEEDINGS OF AN INVITATIONAL WORKSHOP ON CURRICULUM DEVELOPMENT IN ECOLOGY AND RELATED ENVIRONMENTAL SCIENCES, DECEMBER 10 - 11, 1970.

INSTITUTION CODE: BBB04379

DESCRIPTOR: CONFERENCE REPORTS; *CURRICULUM DEVELOPMENT; *ECOLOGY; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; HIGHER EDUCATION; INTERDISCIPLINARY APPROACH; *MANPOWER DEVELOPMENT; MANPOWER NEEDS

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 95P.; DIVISION OF ACADEMIC PLANNING

ISSUE: RIEOCT71

THE PURPOSE OF THE CONFERENCE WAS TO DISCUSS THE FOLLOWING ISSUES: (1) CURRICULA RELATING TO THE PURE AND APPLIED SCIENCES OF THE ENVIRONMENT; (2) PROGRAMS DESIGNED TO DEVELOP THE TECHNOLOGICAL SKILL NECESSARY FOR THE PERSON WHO DEALS WITH SOME ASPECT OF MAINTAINING A HEALTHFUL ENVIRONMENT; (3) PROGRAMS DESIGNED TO DEVELOP MANAGERS OF THE ENVIRONMENT; AND (4) WHAT PLACE THE STUDY OF LIVING THINGS AND THEIR ENVIRONMENT SHOULD HAVE IN EVERY COLLEGE STUDENT'S EDUCATIONAL EXPERIENCE. THE PROCEEDINGS ARE DIVIDED INTO 7 SECTIONS WITH EACH SECTION CONTAINING PAPERS PERTAINING TO THE SUBJECTS UNDER CONSIDERATION. THE SECTIONS ARE: (1) "WHAT PURPOSES ARE TO BE SERVED BY WHAT KINDS OF PROGRAMS?," INCLUDING PAPERS DEALING WITH THE EDUCATION AND TRAINING OF THE ECOLOGIST, ENVIRONMENTAL SCIENTIST, TECHNOLOGIST, AND MANAGER OF THE ENVIRONMENT, AS WELL AS GENERAL EDUCATION IN ECOLOGY; (2) "SCIENCE AND TECHNOLOGY: THE QUESTION OF EMPHASIS"; (3) "SCIENCE AND HUMANITIES: THEIR INTERRELATIONSHIPS"; (4) "THE ROLE OF MULTIDISCIPLINARY AND MULTIUNIVERSITY PROGRAMS IN TODAY'S MULTIVERSITY"; (5) THE EMPLOYMENT ENVIRONMENT IN THE 1970'S AND 1980'S IN THE PUBLIC SCHOOLS, INDUSTRY, GOVERNMENT AND PUBLIC SERVICE; (6) REPORTS OF THE WORKSHOPS IN CURRICULUM DEVELOPMENT; AND (7) THE CONCLUSION. (AF)

INSTITUTION NAME: CALIFORNIA STATE COLLEGES, LOS ANGELES. DIV. OF ACADEMIC PLANNING.

ACCESSION NUMBERS: ED051677 EM009075

PUBLICATION DATE: MAR 71

TITLE: FOREST SERVICE FILMS AVAILABLE ON LOAN FOR EDUCATIONAL PURPOSES TO SCHOOLS, CIVIC GROUPS, CHURCHES, TELEVISION.

INSTITUTION CODE: BBB00642

DESCRIPTOR: *CATALOGS; *CONSERVATION EDUCATION; ENVIRONMENTAL EDUCATION; *FILMS; FIRE PROTECTION; *FIRE SCIENCE EDUCATION; FORESTRY; GUIDES; JOB TRAINING; LAND USE; *RECREATIONAL FACILITIES; SAFETY EDUCATION

IDENTIFIER: *UNITED STATES FOREST SERVICE

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 40P.; SLIGHTLY REVISED

ISSUE: RIEOCT71

OVER 100 FILMS PREPARED BY THE FOREST SERVICE ARE LISTED IN THIS CATALOG. SIXTY-FIVE GENERAL INTEREST FILMS AND SEVEN "SMOKEY THE BEAR" FIRE PREVENTION FILMS ARE AVAILABLE ON LOAN, FREE OF CHARGE, TO THE PUBLIC. TWENTY-NINE FOREST SERVICE TRAINING FILMS ARE ALSO LISTED WHICH ARE NOT AVAILABLE FOR PUBLIC USE EXCEPT UNDER SPECIAL CIRCUMSTANCES. ALL FILMS ARE SOUND ON FILM. THE CATALOG LISTS EACH FILM ALPHABETICALLY BY ITS TITLE AND DESCRIBES ITS CONTENT, RUNNING TIME, INTENDED AUDIENCE, AND DATE OF RELEASE. FILMS NOT CLEARED FOR TELEVISION ARE SO NOTED. THE TOPICS OF THE FILMS RANGE FROM HISTORICAL DESCRIPTIONS OF NATIONAL FORESTS, TO LAND MANAGEMENT, FIRE FIGHTING, AND SOUND LOGGING PRACTICES. COMPLETE ORDERING INFORMATION IS PRESENTED, INCLUDING THE ADDRESSES OF REGIONAL AND STATE FILM LIBRARIES WHICH DISTRIBUTE THE FILMS. (JY)

REPORT NUMBER: FS-31

INSTITUTION NAME: FOREST SERVICE (DOA), WASHINGTON, D.C.

ACCESSION NUMBERS: ED051626 EM008972

PUBLICATION DATE: 71

TITLE: EDUCATORS GUIDE TO FREE FILMS. 31ST ANNUAL EDITION, 1971.

PERSONAL AUTHOR: HORKHEIMER, MARY FOLEY, COMP.; DIFFOR, JOHN C., COMP.

DESCRIPTOR: AEROSPACE TECHNOLOGY; AGRICULTURE; ATHLETICS; BUSINESS EDUCATION; CATALOGS; COMMUNICATIONS; CONSERVATION EDUCATION; CONSUMER EDUCATION; DRIVER EDUCATION; *FILMS; FINE ARTS; GUIDANCE; HEALTH EDUCATION; HISTORY; HOME ECONOMICS; INDUSTRIAL ARTS; INSTRUCTIONAL FILMS; MUSIC; RELIGION; *RESOURCE MATERIALS; SAFETY; SCIENCES; SOCIAL PROBLEMS; YOUTH CLUBS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 789P.

ISSUE: RIEOCT71

THIS GUIDE IS A COMPLETE DIRECTORY OF NEARLY 5,000 FILMS AVAILABLE FREE OF COST (EXCEPT, IN MOST CASES FOR RETURN POSTAGE) IN THE UNITED STATES. THE MAJOR PORTION OF THE GUIDE LISTS FILMS ALPHABETICALLY WITHIN EACH OF THESE CATEGORIES: ACCIDENT PREVENTION AND SAFETY, AEROSPACE EDUCATION, AGRICULTURE, ARTS AND HANDWORK, BUSINESS EDUCATION, CLUBS AND SCOUTING, COMMUNICATIONS AND TRANSPORTATION, CONSERVATION, CONSUMER EDUCATION, DRIVER EDUCATION, ENTERTAINMENT, GEOGRAPHY, GUIDANCE, HEALTH AND SOCIAL HYGIENE, HISTORY, HOME ECONOMICS, INDUSTRIAL ARTS, MUSIC, RELIGION, SCHOOLS AND EDUCATIONAL OPPORTUNITIES, SCIENCE, SOCIAL PROBLEMS, AND SPORTS. EACH LISTING INCLUDES A TWO- OR THREE-SENTENCE SYNOPSIS OF THE FILM, ITS RELEASE DATE, RUNNING TIME, AND PRINT SIZE, AS WELL AS THE SOURCE WHERE IT MAY BE OBTAINED. OTHER INDEXES LIST THE FILMS BY TITLE AND SUBJECT. A SOURCE AND AVAILABILITY INDEX GIVES ADDRESSES OF SOURCES AND GUIDELINES FOR ORDERING. SOURCES HAVING FILMS AVAILABLE IN CANADA ARE SEPARATELY LISTED. (JK)

AVAILABILITY: EDUCATORS PROGRESS SERVICE, INC., RANDOLPH, WISCONSIN 53956 ($10.75)

ACCESSION NUMBERS: ED051400 VT013223

PUBLICATION DATE: 70

TITLE: CAREER LADDERS IN ENVIRONMENTAL HEALTH (SUPPLEMENT).

INSTITUTION CODE: BBB04191

SPONSORING AGENCY CODE: QPX62775

DESCRIPTOR: CAREER CHOICE; *CAREER LADDERS; CAREER PLANNING; COMMUNITY COLLEGES; *COURSE DESCRIPTIONS; *CURRICULUM GUIDES; EDUCATIONAL OBJECTIVES; *ENVIRONMENTAL EDUCATION; HEALTH OCCUPATIONS EDUCATION; JUNIOR COLLEGES; POST SECONDARY EDUCATION; *SANITATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 89P.

ISSUE: RIESEP71

THIS SUPPLEMENTARY DOCUMENT CONTAINS CAREER LADDERS THAT HAVE BEEN DESIGNED TO ENABLE POST SECONDARY STUDENTS TO PREPARE FOR ENTRANCE INTO ENVIRONMENTAL HEALTH OCCUPATIONS AT A LEVEL COMMENSURATE WITH THEIR ABILITIES WHERE THEY WILL BE CAPABLE OF MEANINGFUL CONTRIBUTIONS AND CAN OBTAIN ADVANCED STANDING IN EMPLOYMENT. CONTENTS ARE: (1) FOOD SANITATION, (2) ENVIRONMENTAL HEALTH SEMINAR I, II, (3) GENERAL SANITATION, (4) MILK SANITATION, AND (5) SANITARY CHEMISTRY. THESE COURSE OUTLINES CONSIST OF MAIN TOPICS, NUMBER OF LECTURE PERIODS, OBJECTIVES, REFERENCE CITATIONS AND OTHER RELATED INFORMATION. THIS DOCUMENT IS A SUPPLEMENT TO "CAREER LADDERS IN ENVIRONMENTAL HEALTH," A PREVIOUSLY PROCESSED DOCUMENT AVAILABLE AS ED 047 097. (GB)

REPORT NUMBER: VEA-70-2-386

INSTITUTION NAME: ERIE COMMUNITY COLL., BUFFALO, N.Y.

SPONSORING AGENCY NAME: NEW YORK STATE EDUCATION DEPT., ALBANY.

ACCESSION NUMBERS: ED051304 TM000673

PROGRAM AREA: 24

PUBLICATION DATE: JAN 71

TITLE: DEVELOPMENT OF ATTITUDES TOWARD OTHERS IN YOUNG CHILDREN: FINAL REPORT.

PERSONAL AUTHOR: HOHN, ROBERT L.; SWARTZ, M. EVELYN

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: AFFECTIVE BEHAVIOR; *ATTITUDE TESTS; CHANGING ATTITUDES; COGNITIVE DEVELOPMENT; CONSERVATION (CONCEPT); CURRICULUM PLANNING; *DEVELOPMENTAL TASKS; *DISCRIMINATORY ATTITUDES (SOCIAL); EMOTIONAL RESPONSE; KINDERGARTEN CHILDREN; MEASUREMENT TECHNIQUES; PERCEPTION; PERCEPTUAL DEVELOPMENT; RACIAL ATTITUDES; *ROLE PLAYING; SEX DIFFERENCES; *SOCIAL DISCRIMINATION; SOCIAL RELATIONS; TEST VALIDITY; VISUAL MEASURES

IDENTIFIER: ATTITUDE STORY TEST; PEABODY PICTURE VOCABULARY TEST (PPVT); PIAGET

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 46P.

ISSUE: RIESEP71

THIS STUDY ATTEMPTED TO DEVELOP A VALID INSTRUMENT FOR THE ASSESSMENT OF ATTITUDES IN KINDERGARTEN CHILDREN AND TO EVALUATE TWO POTENTIAL CURRICULUM PROCEDURES FOR FACILITATING ATTITUDE GROWTH. ONE EXPERIMENTAL TREATMENT EVOLVED FROM ROLE-THEORY AND EMPHASIZED PERCEPTUAL AWARENESS AND THE ABILITY TO PUT ONESELF IN THE PLACE OF ANOTHER; THE OTHER EMPHASIZED TRAINING IN PIAGETIAN OPERATIONS SUCH AS CONSERVATION AND SPATIAL PERSPECTIVE. A THIRD CONTROL TREATMENT OF TRADITIONAL KINDERGARTEN ACTIVITIES WAS ASSESSED. THE MAJOR DEPENDENT VARIABLE WAS AN ATTITUDE PREFERENCE TEST REQUIRING THE CHILDREN TO CHOOSE AMONG PICTURES OF BLACK AND WHITE PEOPLE AND TO APPLY A POSITIVE OR NEGATIVE ADJECTIVE TO THE PICTURES. SUBJECTS WERE ALSO ADMINISTERED SIX PIAGETIAN DEVELOPMENTAL TASKS. RESULTS INDICATE THAT KINDERGARTEN CHILDREN POSSESS MARKED, MEASURABLE, RACIAL PREFERENCES AND THE SIGNIFICANTLY REDUCED RACIAL ATTITUDE SCORES RESULTING FROM BOTH ROLE-PLAYING AND PIAGETIAN TRAINING SUGGEST THE FEASIBILITY OF EDUCATIONAL INTERVENTION. DESCRIPTIONS OF THE PROCEDURES AND MATERIALS USED IN THE PIAGET TRAINING TASKS AND THE ROLE-PLAYING TASKS, DIRECTIONS FOR THE ATTITUDE STORY TEST AND FOR THE ADMINISTRATION OF FOUR PERSPECTIVE TASKS ARE CONTAINED IN THE APPENDICES. (AUTHOR/CK)

GRANT NUMBER: OEG-6-70-0006(509)

BUREAU NUMBER: BR-0-E-008

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBERS: ED051069 SO001447

PUBLICATION DATE: 71

TITLE: SELECTED BIBLIOGRAPHY AND AUDIOVISUAL MATERIALS FOR ENVIRONMENTAL EDUCATION.

INSTITUTION CODE: BBB01608

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *AUDIOVISUAL AIDS; COMMUNITY RESOURCES; CONSERVATION EDUCATION; ECOLOGY; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; FILMS; FILMSTRIPS; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; POLLUTION; RESOURCE GUIDES; SECONDARY GRADES; *SOCIAL PROBLEMS

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 46P.

ISSUE: RIESEP71

THIS GUIDE TO RESOURCE MATERIALS ON ENVIRONMENTAL EDUCATION IS IN TWO SECTIONS: 1) SELECTED BIBLIOGRAPHY OF PRINTED MATERIALS, COMPILED IN APRIL, 1970; AND, 2) AUDIO-VISUAL MATERIALS, FILMS AND FILMSTRIPS, COMPILED IN FEBRUARY, 1971. 99 BOOK ANNOTATIONS ARE GIVEN WITH AN INDICATOR OF ELEMENTARY, JUNIOR OR SENIOR HIGH SCHOOL LEVELS. OTHER BOOK INFORMATION INCLUDES: PUBLISHER, COPYRIGHT DATE, PRICE, AND DEWEY DECIMAL CLASSIFICATION. ALSO LISTED IN THIS SECTION ARE SIX PERIODICALS AND SOME FREE AND INEXPENSIVE MATERIALS SUCH AS PAMPHLETS, GOVERNMENT DOCUMENTS, AND BIBLIOGRAPHIES. AUDIOVISUAL AIDS ARE ALSO ARRANGED BY LEVEL: PRIMARY, INTERMEDIATE, AND JUNIOR OR SENIOR HIGH SCHOOL. THIS LAST SECTION FOR SECONDARY GRADES IS SUBDIVIDED INTO SPECIFIC TOPICS: 1) MAN AND NATURAL RESOURCES, 2) POPULATION EXPLOSIONS, 3) PROBLEMS OF THE CITIES, 4) POLLUTION, AND 5) RELATIONSHIP OF MAN TO COMMUNITIES. A BRIEF CONTENT ANNOTATION IS GIVEN AS WELL AS RUNNING TIME, COLOR, PRODUCER, COPYRIGHT DATA (WHEN AVAILABLE), RENTAL FEE AND FILM ORDER NUMBER FROM THE UNIVERSITY OF MINNESOTA. APPENDED IS A LIST OF NINE ADDITIONAL AUDIOVISUAL RENTAL SOURCES AND ADDRESSES OF 27 FILM COMPANIES. (AUTHOR/JSB)

REPORT NUMBER: XXXVIII-B-363; XXXVIII-B-365

INSTITUTION NAME: MINNESOTA STATE DEPT. OF EDUCATION, ST. PAUL. DIV. OF INSTRUCTION.

ACCESSION NUMBERS: ED051055 SO001346

PUBLICATION DATE: 27 MAY 71

TITLE: POPULATION EDUCATION IN THE UNITED STATES: A PRELIMINARY REPORT TO THE COMMISSION ON POPULATION GROWTH AND THE AMERICAN FUTURE.

PERSONAL AUTHOR: VIEDERMAN, STEPHEN

INSTITUTION CODE: BBB03554

DESCRIPTOR: *BIBLIOGRAPHIES; COURSE CONTENT; COURSE OBJECTIVES; CURRICULUM DEVELOPMENT; *DEMOGRAPHY; *EDUCATIONAL NEEDS; *ENVIRONMENTAL EDUCATION; FINANCIAL NEEDS

IDENTIFIER: *POPULATION EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 18P.

ISSUE: RIESEP71

THIS REPORT IS PRIMARILY A STATEMENT OF NEEDS, WHICH WILL HOPEFULLY BE USED AS A BASIS FOR FORMULATING A NATIONAL POLICY THAT PLACES A HIGH PRIORITY ON POPULATION EDUCATION. IT SETS FORTH A DEFINITION OF POPULATION EDUCATION, ITS RELATIONSHIP TO OTHER PARTS OF THE CURRICULUM, GENERAL CONTENT AND OBJECTIVES, AND SOME OBSERVATIONS ON THE PRESENT STATUS AND FUTURE DIRECTIONS OF POPULATION EDUCATION IN THE UNITED STATES. THROUGHOUT, THERE IS AN EMPHASIS ON POPULATION EDUCATION AS A PROCESS OF UNDERSTANDING POPULATION CHARACTERISTICS, PROCESSES, AND CHANGES, AND THE INTERACTION OF THESE PHENOMENA WITH INDIVIDUAL LIVES--AS OPPOSED TO VIEWING IT SOLELY AS THE CAUSE OF ENVIRONMENTAL DEGREDATION. THE REPORT CONCLUDES WITH A MEMORANDUM TO THE COMMISSION SETTING FORTH THE SPECIFIC EFFORTS THAT INCREASED FUNDING MIGHT SUPPORT. THESE INCLUDE: RESEARCH AND DEVELOPMENT CENTERS; MATERIALS DEVELOPMENT; TEACHER TRAINING PROGRAMS; AND, MODEL PROGRAMS. THE APPENDIX CONSISTS OF A PRELIMINARY LIST OF AVAILABLE INSTRUCTIONAL MATERIALS AND CHILDRENS' BOOKS, AS WELL AS A LIST OF INSTITUTIONS CONCERNED WITH POPULATION EDUCATION. THE FINAL REPORT TO THE COMMISSION WILL BE COMPLETED IN SEPTEMBER 1971. (JLB)

INSTITUTION NAME: POPULATION COUNCIL, NEW YORK, N.Y.

ACCESSION NUMBERS: ED051040 SO001307

PUBLICATION DATE: 69

TITLE: THE ECONOMICS OF POLLUTION. ECONOMIC TOPIC SERIES.

PERSONAL AUTHOR: WOLOZIN, HAROLD

INSTITUTION CODE: QPX39695

DESCRIPTOR: AIR POLLUTION CONTROL; COMMUNITY RESOURCES; *ECONOMIC EDUCATION; *ECONOMIC PROGRESS; *ECONOMICS; *ENVIRONMENTAL EDUCATION; HIGHER EDUCATION; INQUIRY TRAINING; INSTRUCTIONAL FILMS; *POLLUTION; PROBLEM SOLVING; RESOURCE MATERIALS; SOCIAL STUDIES UNITS; TEACHING GUIDES; TEACHING TECHNIQUES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 23P.

ISSUE: RIESEP71

ONE OF THE MAJOR REASONS FOR THE PRESENT CONCERN FOR THE POLLUTION OF THE ENVIRONMENT LIES IN THE DOUBTS ABOUT WHETHER ECONOMIC GROWTH IS POSSIBLE WITHOUT PROPORTIONATE INCREASES IN THE POLLUTION OF OUR AIR, LAND, AND WATER. IN RESPONSE, PROFESSOR WOLOZIN DEVOTES PART ONE OF THIS TRILOGY TO EXAMINING THE ECONOMIC RELATIONSHIPS THAT HELP TO EXPLAIN WHY POLLUTION IS A SPECIAL PROBLEM OF PRODUCTION AND CONSUMPTION. PART TWO SURVEYS THE DIFFICULTIES OF MEASURING AND ASSIGNING COSTS: WHO IS RESPONSIBLE FOR THE CONTAMINATION OF THE ENVIRONMENT? PART THREE ANALYZES MEASURES TO COMBAT POLLUTION. ACCOMPANYING EACH ARTICLE ARE TEACHING SUGGESTIONS BY PATRICA R. REILLY OF JOHN DEWEY HIGH SCHOOL, NEW YORK CITY. SHE SETS DOWN INSTRUCTIONAL OBJECTIVES, IDEAS FOR MOTIVATING STUDENTS, STRATEGIES FOR ANALYSIS OF PERTINENT QUESTIONS, AND THE USE OF MODELS, TABULAR, AND GRAPHIC MATERIALS FOR CLARIFYING ISSUES. SUGGESTED READINGS AND INSTRUCTIONAL MATERIALS INCLUDING 16 MM FILMS ARE ALSO LISTED. (AUTHOR/SBE)

AVAILABILITY: JOINT COUNCIL ON ECONOMIC EDUCATION, 1212 AVENUE OF THE AMERICAS, NEW YORK, NEW YORK 10036 ($1.00)

INSTITUTION NAME: JOINT COUNCIL ON ECONOMIC EDUCATION, NEW YORK, N.Y.

ACCESSION NUMBERS: ED051037 SO001297

PUBLICATION DATE: APR 71

TITLE: A SUMMARY OF THE ACTIVITIES OF THE COMMISSION ON COLLEGE GEOGRAPHY ASSOCIATION OF AMERICAN GEOGRAPHERS.

INSTITUTION CODE: BBB04984

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: CURRICULUM DEVELOPMENT; *EDUCATIONAL DEVELOPMENT; EDUCATIONAL OBJECTIVES; EDUCATIONAL RESEARCH; ENVIRONMENTAL EDUCATION; *GEOGRAPHY; GEOGRAPHY INSTRUCTION; *HIGHER EDUCATION; INSERVICE PROGRAMS; INTERDISCIPLINARY APPROACH; *PROFESSIONAL ASSOCIATIONS; *SOCIAL SCIENCES; UNDERGRADUATE STUDY

IDENTIFIER: ASSOCIATION OF AMERICAN GEOGRAPHERS; *COMMISSION ON COLLEGE GEOGRAPHY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 5P.

ISSUE: RIESEP71

THE MAJOR PURPOSE OF THE COMMISSION AND ITS PANELS IS TO WORK TO IMPROVE GEOGRAPHIC PROGRAMS AT THE COLLEGE LEVEL; IT IS SUPPORTED BY THE NATIONAL SCIENCE FOUNDATION. SPECIFIC OBJECTIVES ARE: 1) TO DEVELOP APPROACHES TO INTEGRATE GEOGRAPHIC PROGRAMS WITHIN THE BROADER HIGHER EDUCATION CONTEXT INCLUDING INTERDISCIPLINARY DESIGN; 2) DEVELOP AND PUBLISH PERTINENT MATERIALS; 3) ADVISE INDIVIDUALS AND INSTITUTIONS IN STRENGTHENING GEOGRAPHY CURRICULA; 4) INVESTIGATE WAYS TO INCREASE EFFECTIVENESS OF UNDERGRADUATE PROGRAMS; AND, 5) DEVELOP NEW SCHEMES TO IMPROVE GEOGRAPHY COURSES AND PROGRAMS. THE FOLLOWING COMMISSION PANELS ARE ACTIVE: 1) RESOURCE AND TECHNICAL PAPERS; 2) COMPUTER ASSISTED LEARNING; 3) PHYSICAL GEOGRAPHY; 4) ENVIRONMENTAL EDUCATION; 5) TWO-YEAR COLLEGES; 6) DEVELOPMENT OF CONSULTING SERVICES; 7) TEACHER EDUCATION; 8) EVALUATION OF THE COMMISSION'S ACTIVITIES. LISTED IN THE BULLETIN ARE DOCUMENTS DEVELOPED AND PUBLISHED BY THE COMMISSION: 10 TITLES IN A REGULAR SERIES, 8 RESOURCE PAPERS, AND 4 TECHNICAL PAPERS. TOPICS OF INTENDED PUBLICATIONS ARE ANNOUNCED, AS WELL AS PLANS FOR INSTITUTES, WORKSHOPS, AND CONFERENCES. OTHER COMMISSION ACTIVITIES ARE SUMMARIZED, AND OFFICERS AND MEMBERS ARE LISTED. SINGLE COPIES OF ALL PUBLICATIONS ARE DISTRIBUTED TO MEMBERS; PRICES AND PURCHASE PROCEDURE FOR BULK QUANTITIES ARE AVAILABLE ON REQUEST. (AUTHOR/JSB)

AVAILABILITY: COMMISSION ON COLLEGE GEOGRAPHY, GEOGRAPHY DEPARTMENT, ARIZONA STATE UNIVERSITY, TEMPE, ARIZONA 85281

INSTITUTION NAME: ARIZONA STATE UNIV., TEMPE. COMMISSION ON COLL. GEOGRAPHY.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED051034 SO001291

PUBLICATION DATE: 71

TITLE: FINDING COMMUNITY: A GUIDE TO COMMUNITY RESEARCH AND ACTION.

PERSONAL AUTHOR: JONES, W. RON; AND OTHERS

DESCRIPTOR: *COMMUNITY ACTION; *COMMUNITY INVOLVEMENT; *COMMUNITY STUDY; CONSUMER ECONOMICS; CREDIT (FINANCE); ECONOMIC DISADVANTAGEMENT; EDUCATIONAL METHODS; ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; FOOD STORES; HIGHER EDUCATION; HOUSING; MEDICAL SERVICES; MILITARY SERVICE; POLICE; RESOURCE MATERIALS; SECONDARY EDUCATION; *SOCIAL PROBLEMS; *SOCIAL STUDIES; WELFARE SERVICES

IDENTIFIER: ADVERTISING; CORPORATISM; MILITARISM; MILITARY INDUSTRIAL COMPLEX; SOCIAL CONTROL

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 224P.

ISSUE: RIESEP71

FOR THOSE CONCERNED WITH CONTEMPORARY SOCIAL PROBLEMS, WHETHER AS STUDENTS, MEMBERS OF COMMUNITY GROUPS, OR INDIVIDUAL CITIZENS, THIS BOOK ATTEMPTS NOT ONLY TO DESCRIBE THE ISSUES, BUT ALSO TO OFFER SOME STARTING POINTS FOR LOCAL RESEARCH AND ACTION. AS AN EDUCATIONAL TOOL, IT IS BASED ON THE BELIEF THAT A GOOD WAY TO LEARN ABOUT A COMMUNITY IS TO GET INVOLVED WITH IT. IT CAN BE USED IN SOME FORM AT EVERY EDUCATIONAL LEVEL. EACH OF THE ELEVEN CHAPTERS HAS FOUR PARTS: 1) INDICTMENT TO BRIEFLY DESCRIBE THE PROBLEM; 2) READINGS TO SERVE AS EVIDENCE DRAWN FROM DIFFERENT SOURCES; 3) COMMUNITY RESEARCH AND ACTION; AND, 4) ALTERNATIVES TO SHOW EFFORTS OF PEOPLE TO CREATE NEW INSTITUTIONS TO ANSWER THE PROBLEMS RAISED BY THE OLD. THE CORE MATERIAL LIES IN THE RESEARCH AND ACTION SECTIONS; THE RESEARCH QUESTIONS CAN BE USED TO DECIDE WHETHER THE CONDITIONS DESCRIBED IN THE INDICTMENTS AND READINGS EXIST IN YOUR COMMUNITY. FOR EXAMPLE, ONE OF THE ACTIVITIES INCLUDED IN THE CHAPTER ON FOOD COSTS AND QUALITY CONSISTS OF A "FOOD MARKET SURVEY". A CHART IS PROVIDED ON WHICH ONE CAN COMPARE PRICES ON INDIVIDUAL ITEMS IN LOW- AND MIDDLE-INCOME MARKETS, AND FOOD CO-OPS. SOME OF THE OTHER ISSUES COVERED ARE: SELLING PRACTICES AND CREDIT ABUSE, EXPERIENCING THE WELFARE SYSTEM, CONDITION OF AMERICAN HOUSING, THE POLICE, THE DRAFT, AND THE ENVIRONMENT. (AUTHOR/JLB)

AVAILABILITY: JAMES E. FREEL AND ASSOCIATES, 577 COLLEGE AVENUE, PALO ALTO, CALIFORNIA 94306 ($3.45)

ACCESSION NUMBERS: ED051029 SO001280

PUBLICATION DATE: 68

TITLE: COMMUNITIES AROUND THE WORLD. EARLY CALIFORNIA MINING CAMP. TEACHER'S RESOURCE UNIT.

INSTITUTION CODE: BBB05037

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: *AREA STUDIES; *COMMUNITY STUDY; *CURRICULUM GUIDES; ELEMENTARY GRADES; GEOLOGY; GOVERNMENT (ADMINISTRATIVE BODY); GOVERNMENT ROLE; GRADE 3; HUMAN GEOGRAPHY; INTERDISCIPLINARY APPROACH; NATURAL RESOURCES; RESOURCE GUIDES; SITE ANALYSIS; SOCIAL CHANGE; *SOCIAL STUDIES UNITS; SOCIAL SYSTEMS; SOCIOECONOMIC INFLUENCES; *UNITED STATES HISTORY

IDENTIFIER: *CALIFORNIA GOLD RUSH; MINING; VALUES EDUCATION; WESTERN UNITED STATES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 86P.; REVISED FOLLOWING FIELD TESTING IN THE CHELMSFORD, MASS. PUBLIC SCHOOLS

ISSUE: RIESEP71

THIS RESOURCE GUIDE, REVISED IN 1968, OUTLINES ONE OF A SERIES OF UNITS PREPARED FOR GRADE 3 ON THE THEME COMMUNITIES AROUND THE WORLD. BACKGROUND INFORMATION ON THE CALIFORNIA GOLD MINING CAMP IS GIVEN FOR THE TEACHER DESCRIBING THE PHYSICAL SITE, HISTORICAL PERIOD, COMMUNITY STRUCTURE, SOCIAL CHARACTERISTICS, AND GOVERNMENTAL ROLE. GENERAL OBJECTIVES OF THE STUDY ARE OUTLINED; CONCEPTS, GENERALIZATIONS, SKILLS, AND ATTITUDES TO BE DEVELOPED ARE DEFINED. COURSE CONTENT IS PRESENTED IN A FORMAT DESIGNED TO HELP TEACHERS SEE THE RELATIONSHIPS AMONG OBJECTIVES, CONTENT, TEACHING PROCEDURES, AND MATERIALS OF INSTRUCTION. AN INTERDISCIPLINARY APPROACH IS INCORPORATED INTO THE 49 TEACHING STRATEGIES. EDUCATIONAL MEDIA RELATED TO THIS UNIT ARE LISTED AND SOME PUPIL MATERIALS PREPARED FOR THIS STUDY ARE APPENDED. OTHER DOCUMENTS IN THIS SERIES OF ELEMENTARY CURRICULUM GUIDES ARE SO 001 275 THROUGH SO 001 287. (AUTHOR/JSB)

INSTITUTION NAME: MINNESOTA UNIV., MINNEAPOLIS. PROJECT SOCIAL STUDIES CURRICULUM CENTER.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

ACCESSION NUMBERS: ED051012 SO001187

PUBLICATION DATE: 70

TITLE: A CURRICULUM GUIDE IN ELEMENTARY SOCIAL STUDIES: MAN AND HIS INSTITUTIONS. GRADE THREE.

INSTITUTION CODE: LYR27715

DESCRIPTOR: CITIZENSHIP; CITY PLANNING; CITY PROBLEMS; COMMUNICATIONS; CONCEPT TEACHING; *CURRICULUM GUIDES; DEMOCRATIC VALUES; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; GOVERNMENTAL STRUCTURE; *GOVERNMENT ROLE; GRADE 3; HUMAN RELATIONS UNITS; INDUSTRIALIZATION; POLLUTION; PUBLIC AFFAIRS EDUCATION; SOCIAL CHANGE; *SOCIAL STUDIES UNITS; TRANSPORTATION; *URBAN STUDIES

IDENTIFIER: *BALTIMORE; COLUMBIA; MARYLAND; *VALUES EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$9.87

DESCRIPTIVE NOTE: 258P.

ISSUE: RIESEP71

THE COURSE THEME OF THIS GRADE 3 SOCIAL STUDIES CURRICULUM GUIDE IS MAN AND HIS INSTITUTIONS. WITH A BACKGROUND OF FAMILY AND COMMUNITY STUDY IN GRADES 1 AND 2, THE PURPOSE AT THIS LEVEL IS TO ANALYZE MORE INSTITUTIONS CREATED BY MAN TO MEET THE GROWING COMPLEXITIES OF SOCIETY. SPECIFIC INSTITUTIONS SELECTED FOR STUDY ARE: 1) GOVERNMENT AS AN INSTITUTION; 2) TRANSPORTATION AND COMMUNICATION; 3) URBANIZATION AND INDUSTRIALIZATION; AND, 4) EDUCATION AS AN INSTITUTION (OPTIONAL). FORMAT OF THE GUIDE IS CONSISTENT WITH THE SERIES WITH MAJOR DIVISIONS FOR 1) CONCEPTS, 2) TEACHING STRATEGIES, 3) CONTENT AND MATERIALS, 4) VARIETIES IN STRATEGIES AND CONTENT; AND 5) EVALUATION. BALTIMORE, MARYLAND AND THE PLANNED CITY OF COLUMBIA, MARYLAND ARE THE URBAN COMMUNITIES CHOSEN FOR STUDY. RELATED DOCUMENTS ARE: SO 001 185 THROUGH SO 001 189. (AUTHOR/JSB)

AVAILABILITY: SOCIAL STUDIES DEPARTMENT, HOWARD COUNTY PUBLIC SCHOOLS, CLARKSVILLE, MARYLAND 21029 ($3.00)

INSTITUTION NAME: HOWARD COUNTY BOARD OF EDUCATION, CLARKSVILLE, MD.

ACCESSION NUMBERS: ED051011 SO001186

PUBLICATION DATE: 70

TITLE: A CURRICULUM GUIDE IN ELEMENTARY SOCIAL STUDIES: MAN IN THE COMMUNITY. GRADE TWO.

INSTITUTION CODE: LYR27715

DESCRIPTOR: CITIZENSHIP; *COMMUNITY STUDY; CONCEPT TEACHING; *CROSS CULTURAL STUDIES; CULTURAL ENVIRONMENT; *CURRICULUM GUIDES; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; FIELD EXPERIENCE PROGRAMS; GEOGRAPHY; GRADE 2; HUMAN RELATIONS UNITS; MAP SKILLS; NATURAL RESOURCES; NON WESTERN CIVILIZATION; RURAL ENVIRONMENT; *SOCIAL STUDIES UNITS; URBAN ENVIRONMENT; VALUES

IDENTIFIER: JAPAN; MARYLAND; THAILAND; *VALUES EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 169P.

ISSUE: RIESEP71

MAN IN THE COMMUNITY IS THE THEME OF THIS SOCIAL STUDIES CURRICULUM GUIDE FOR GRADE 2. THE COURSE EMPHASIZES: WHAT A COMMUNITY IS, HOW PEOPLE CONTRIBUTE AS INDIVIDUALS AND FAMILY GROUPS, AND COMPARATIVE STUDY OF COMMUNITY LIFE. A STATED AIM IS FOR THE STUDENT TO GAIN A KNOWLEDGE OF HIS PLACE IN THE COMMUNITY AND HIS WORTH AS AN INDIVIDUAL. CONTENT IS DIVIDED INTO THREE UNITS OF STUDY: 1) PEOPLE CREATE COMMUNITIES; 2) THE COMMUNITY AND ITS NATURAL RESOURCES; AND, 3) COMPARISON OF COMMUNITIES AROUND THE WORLD. SPECIAL FEATURES OF THE GRADE TWO CURRICULUM ARE FIELD EXPERIENCE PROGRAMS, ENVIRONMENTAL EDUCATION, AND A VARIETY OF MAP, GLOBE, AND OTHER GEOGRAPHY SKILLS. A CITY COMMUNITY IN JAPAN AND A SMALL VILLAGE OF THAILAND ARE THE SELECTED AREAS FOR COMPARATIVE STUDY. FORMAT OF THE GUIDE IS CONSISTENT WITH THIS SERIES WITH MAJOR DIVISIONS FOR 1) CONCEPTS, 2) TEACHING STRATEGIES, 3) CONTENT AND MATERIALS, 4) VARIETIES IN STRATEGIES AND CONTENT, AND 5) EVALUATION. RELATED DOCUMENTS ARE: SO 001 185 THROUGH SO 001 189. (JSB)

AVAILABILITY: SOCIAL STUDIES DEPARTMENT, HOWARD COUNTY PUBLIC SCHOOLS, CLARKSVILLE, MARYLAND 21029 ($3.00)

INSTITUTION NAME: HOWARD COUNTY BOARD OF EDUCATION, CLARKSVILLE, MD.

ACCESSION NUMBERS: ED050990 SE011348

PUBLICATION DATE: MAY 70

TITLE: CAN EDUCATION AND THIS NATION SURVIVE? AMERICAN OCEANOGRAPHY.

PERSONAL AUTHOR: KRAFT, TOM, ED.

INSTITUTION CODE: BBB05052

DESCRIPTOR: COLLEGE SCIENCE; *CURRICULUM; ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; *OCEANOLOGY; OUTDOOR EDUCATION; *PROGRAM DESCRIPTIONS; SECONDARY SCHOOL SCIENCE

IDENTIFIER: AMERICAN SOCIETY FOR OCEANOGRAPHY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 12P.; AMERICAN OCEANOGRAPHY, SPECIAL EDUCATION ISSUE

ISSUE: RIESEP71

BRIEF DESCRIPTIONS OF 9 MARINE SCIENCE PROGRAMS FOR STUDENTS AT VARIOUS EDUCATIONAL LEVELS ARE GIVEN IN THIS SPECIAL ISSUE. MOST OF THE ACCOUNTS DESCRIBE THE PROCEDURES FOLLOWED BY THE CENTER CONCERNED, BUT SOME SPECIFY THE OBJECTIVES THAT GUIDE THE WORK. MOST OF THE PROJECTS DESCRIBED INVOLVE STUDENTS USING THE FACILITIES IN ACTIVE RESEARCH, RATHER THAN PROVIDING LECTURE-DEMONSTRATIONS. (AL)

AVAILABILITY: AMERICAN OCEANOGRAPHY, 854 MAIN BUILDING, HOUSTON, TEXAS 77002

INSTITUTION NAME: AMERICAN SOCIETY FOR OCEANOGRAPHY, HOUSTON, TEX.

ACCESSION NUMBERS: ED050973 SE011310

PUBLICATION DATE: 71

TITLE: OUTLINES OF ENVIRONMENTAL EDUCATION.

PERSONAL AUTHOR: SCHOENFELD, CLAY, ED.

DESCRIPTOR: ECOLOGY; EDUCATIONAL PROGRAMS; *ENVIRONMENTAL EDUCATION; *ESSAYS; *INSTRUCTIONAL MATERIALS; NATURE CENTERS; OUTDOOR EDUCATION; *PUBLICATIONS; RESOURCE MATERIALS

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$9.87

DESCRIPTIVE NOTE: 257P.

ISSUE: RIESEP71

SELECTED ARTICLES FROM THE FIRST TWO YEARS OF PUBLICATION OF THE QUARTERLY JOURNAL "ENVIRONMENTAL EDUCATION" ARE REPRINTED IN THIS BOOK TOGETHER WITH EDITORIAL REMARKS WHERE APPROPRIATE. CONTRIBUTIONS FROM 76 INDIVIDUALS AND ORGANIZATIONS ARE INCLUDED. CHAPTERS DEAL WITH THE SETTING FOR ENVIRONMENTAL EDUCATION, DEFINITIONS AND DIRECTIONS, ELEMENTARY AND SECONDARY SCHOOL CURRICULA, UNIVERSITY DIMENSIONS, NEW NATURE CENTERS AND LEARNING LABORATORIES, AND COMMUNITY ACTION PROGRAMS. REFERENCES ARE INCLUDED AT THE END OF EACH ARTICLE WHEN NECESSARY. THE GOAL OF THE BOOK IS TO HELP PROFESSIONALIZE THE FIELD OF ENVIRONMENTAL EDUCATION BY PRESENTING RELEVANT REPORTING OF INVESTIGATIONS, CREATIVE DEVELOPMENTS, AND IMAGINATIVE INSIGHTS IN CONSERVATION COMMUNICATIONS. (BL)

AVAILABILITY: DEMBAR EDUCATIONAL RESEARCH SERVICES, BOX 1148, MADISON, WISCONSIN 53701

ACCESSION NUMBERS: ED050972 SE011309

PUBLICATION DATE: 70

TITLE: SCHOOLS COUNCIL REPORT 1969/70.

INSTITUTION CODE: BBB04302

DESCRIPTOR: ART EDUCATION; *CURRICULUM DEVELOPMENT; *ELEMENTARY SCHOOLS; ENVIRONMENTAL EDUCATION; HUMANITIES; LANGUAGE; MATHEMATICS EDUCATION; SCIENCE EDUCATION; *SECONDARY SCHOOLS

IDENTIFIER: *ENGLAND

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 72P.

ISSUE: RIESEP71

THE WORK OF THE SCHOOLS COUNCIL (A BODY WITH A MAJORITY OF TEACHER MEMBERS WHICH CONDUCTS RESEARCH AND DEVELOPMENT ON CURRICULA, TEACHING METHODS, AND EXAMINATIONS IN ENGLISH AND WELSH SCHOOLS) IS SUMMARIZED UNDER THE HEADINGS OF EXAMINATION, SUBJECT COMMITTEES, FIELD OFFICERS, TEACHERS' CENTERS, AND WORKING PARTIES. THE PROJECTS ARE CONCERNED WITH LANGUAGE, SCIENCE, MATHEMATICS, READING, HUMANITIES, AND ART EDUCATION, AND WITH THE PROBLEMS OF ASSESSING THESE SUBJECTS. SOME INTERDISCIPLINARY PROJECTS, PARTICULARLY "ENVIRONMENTAL STUDIES," ARE INCLUDED. A LIST OF PUBLICATIONS AND AN ANNOTATED LIST OF ALL RESEARCH AND DEVELOPMENT PROJECTS IN WHICH THE COUNCIL PARTICIPATES ARE APPENDED. A COPY OF THE CONSTITUTION OF THE SCHOOLS COUNCIL IS INCLUDED. (AL)

AVAILABILITY: SCHOOLS COUNCIL PUBLICATIONS, 160 GREAT PORTLAND STREET, LONDON W1, ENGLAND

INSTITUTION NAME: SCHOOLS COUNCIL, LONDON (ENGLAND).

ACCESSION NUMBERS: ED050968 SE011300

PUBLICATION DATE: 71

TITLE: OUTDOOR ACTIVITIES FOR ENVIRONMENTAL STUDIES.

PERSONAL AUTHOR: KNAPP, CLIFFORD E.

INSTITUTION CODE: BBB05028

DESCRIPTOR: *ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *LEARNING ACTIVITIES; LESSON PLANS; NATURAL RESOURCES; OUTDOOR EDUCATION; SCIENCE ACTIVITIES; *STUDENT PROJECTS; *TEACHING GUIDES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 48P.; INSTRUCTOR HANDBOOK SERIES

ISSUE: RIESEP71

THIS BOOKLET IS A COMPILATION OF FIELD-TESTED OUTDOOR ACTIVITIES INTRODUCING BASIC PROJECTS FOR SMALL GROUP OR INDIVIDUALIZED STUDY IN MONITORING CERTAIN ASPECTS OF THE ENVIRONMENT. ITS PURPOSE IS TO PROVIDE TEACHERS WITH NEW WAYS TO INVOLVE CHILDREN DIRECTLY IN MEANINGFUL AND DEVELOPMENTAL LEARNING ACTIVITIES AND TO HELP STUDENTS BECOME MORE SENSITIVE AND UNDERSTANDING OF THE QUANTITATIVE ASPECTS OF THEIR ENVIRONMENT. AN INTERDISCIPLINARY APPROACH IS UTILIZED WITH LESSON PLANS ALLOWING FOR A WIDE VARIETY OF STUDENT ABILITIES AND GRADE LEVEL USE. PROJECTS INCLUDE: MEASURING HORIZONTAL AND VERTICAL DISTANCES; SLOPE MEASUREMENTS; USING A HYPSOMETER, CLINOMETER AND SECCHI DISK; ESTIMATING BOARD LUMBER; MOVING WATER; SOIL COMPACTION AND WATER ABSORPTION; WIND SPEED; AND CONSTRUCTION AND USE OF A SUNDIAL. FOR EACH PROJECT OR LESSON BACKGROUND INFORMATION IS PROVIDED IN ADDITION TO OBJECTIVES, CONCEPTS, VOCABULARY, MATERIALS NEEDED, INSTRUCTIONAL PROCEDURE AND ACTIVITIES, AND IDEAS FOR FURTHER INVESTIGATION. (BL)

AVAILABILITY: THE INSTRUCTOR PUBLICATIONS, INC., DANSVILLE, NEW YORK 14437

INSTITUTION NAME: SOUTHERN ILLINOIS UNIV., CARBONDALE. DEPT. OF CONSERVATION AND OUTDOOR RECREATION.

ACCESSION NUMBERS: ED050959 SE011245

PUBLICATION DATE: 71

TITLE: SHARING THE EARTH, KIT II.

DESCRIPTOR: AUDIOVISUAL AIDS; ECOLOGY; *ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; SCIENCE EDUCATION; SOCIAL STUDIES; *TEACHING GUIDES; *UNIT PLAN

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 64P.

ISSUE: RIESEP71

INTRODUCING THE PUPIL TO THE SCIENCE OF ECOLOGY IS THE PURPOSE OF SCHOLASTIC'S EARTH CORPS ECOLOGY/CONSERVATION STUDY KITS FOR GRADES 3-6. SIMPLE TERMS ARE USED TO SHOW HOW ALL LIVING THINGS ARE INTER-RELATED TO THEIR ENVIRONMENT, TO DEMONSTRATE THE INTRICATE AND DELICATE BALANCE OF NATURE, AND TO POINT OUT HOW MAN'S INTERFERENCE WITH NATURE'S CHECKS AND BALANCES HAS LED TO OUR PRESENT CRISIS. THIS KIT EXPLORES IN DEPTH THE INTERDEPENDENCE OF ANIMALS AND PLANTS, EARTH'S CYCLES, AND LIFE ZONES. INCLUDED IN THE INSTRUCTIONAL MATERIALS ARE: (1) STUDENT ACTIVITY BOOKS WITH READING MATTER, ILLUSTRATIONS, WRITTEN AND CREATIVE PROJECTS; (2) A TEACHER'S GUIDE WITH SUGGESTIONS FOR PAGE BY PAGE USE OF THE STUDENT BOOKLET, BACKGROUND INFORMATION, TEACHING PROCEDURES, DISCUSSION QUESTIONS, AND RELATED PROJECTS; (3) NINE TRANSPARENCIES ILLUSTRATING HOW CLIMATIC AND GEOGRAPHIC CONDITIONS SHAPE LIFE AND ARE, IN TURN, SHAPED BY LIFE. SIX ARE COLOR REPRESENTATIONS OF THE MAJOR BIOMES OF NORTH AMERICA; AND (4) A FULL-COLOR, TWO-SIDED WALL CHART DEPICTING EARTH CYCLES, THOSE IN NATURE AND THOSE IN THE CITY. A RELATED DOCUMENT IS KIT I, EARTH IS MY HOME. (BL)

AVAILABILITY: SCHOLASTIC BOOK SERVICES, 904 SYLVAN AVENUE, ENGLEWOOD CLIFFS, NEW JERSEY 07632 (KIT II, #4303, $24.00)

ACCESSION NUMBERS: ED050958 SE011244

PUBLICATION DATE: 71

TITLE: EARTH IS MY HOME, KIT I.

DESCRIPTOR: AUDIOVISUAL AIDS; ECOLOGY; *ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; SCIENCE EDUCATION; SOCIAL STUDIES; *TEACHING GUIDES; *UNIT PLAN

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 64P.

ISSUE: RIESEP71

INTRODUCING THE PUPIL TO THE SCIENCE OF ECOLOGY IS THE PURPOSE OF SCHOLASTIC'S EARTH CORPS ECOLOGY/CONSERVATION STUDY KITS FOR GRADES 3-6. SIMPLE TERMS ARE USED TO SHOW HOW ALL LIVING THINGS ARE INTER-RELATED TO THEIR ENVIRONMENT, TO DEMONSTRATE THE INTRICATE AND DELICATE BALANCE OF NATURE, AND TO POINT OUT HOW MAN'S INTERFERENCE WITH NATURE'S CHECKS AND BALANCES HAS LED TO OUR PRESENT CRISIS. INCLUDED IN THE INSTRUCTIONAL MATERIALS ARE: (1) STUDENT ACTIVITY BOOKS WITH READING MATTER, ILLUSTRATIONS, WRITTEN AND CREATIVE PROJECTS; (2) A TEACHER'S GUIDE WITH SUGGESTIONS FOR PAGE BY PAGE USE OF THE STUDENT BOOKLET, BACKGROUND INFORMATION, TEACHING PROCEDURES, DISCUSSION QUESTIONS, AND RELATED PROJECTS; (3) NINE TRANSPARENCIES ILLUSTRATING HOW CLIMATIC AND GEOGRAPHIC CONDITIONS SHAPE LIFE AND ARE, IN TURN, SHAPED BY LIFE. SIX ARE COLOR REPRESENTATIONS OF THE MAJOR BIOMES OF NORTH AMERICA; AND (4) A FULL-COLOR, TWO-SIDED WALL CHART DEPICTING EARTH CYCLES, THOSE IN NATURE AND THOSE IN THE CITY. A RELATED DOCUMENT IS KIT II, SHARING THE EARTH. (BL)

AVAILABILITY: SCHOLASTIC BOOK SERVICES, 904 SYLVAN AVENUE, ENGLEWOOD CLIFFS, NEW JERSEY 07632 (KIT I, #4302, $24.00)

ACCESSION NUMBERS: ED050957 SE011243

PUBLICATION DATE: 71

TITLE: FIRST FOLLOW NATURE, KIT II.

DESCRIPTOR: AUDIOVISUAL AIDS; *ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; MULTIMEDIA INSTRUCTION; SCIENCE EDUCATION; SOCIAL STUDIES; *TEACHING GUIDES; *UNIT PLAN

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 64P.

ISSUE: RIESEP71

DEVELOPING PUPILS' AWARENESS OF THEIR ENVIRONMENT, LEARNING TO DISTINGUISH BETWEEN WHAT IS PLEASANT AND UNPLEASANT, AND EXAMINING ACTS OF MAN TO DETERMINE WHICH ARE DESTRUCTIVE AND WHICH ARE IN HARMONY WITH NATURE ARE THE PURPOSES OF SCHOLASTIC'S EARTH CORPS ENVIRONMENTAL STUDY KITS FOR GRADES 1-6. THIS KIT EXPLORES IN DEPTH THE REASONS SOME ENVIRONMENTS ARE PLEASANT AND OTHERS UNPLEASANT. INCLUDED IN THE INSTRUCTIONAL MATERIALS ARE: (1) STUDENT ACTIVITY BOOKS WITH READING MATTER, ILLUSTRATIONS, WRITTEN AND CREATIVE WORK; (2) A TEACHER'S GUIDE WITH SUGGESTIONS FOR PAGE BY PAGE USE OF THE STUDENT BOOKLET, BACKGROUND INFORMATION, TEACHING PROCEDURES, DISCUSSION QUESTIONS, AND RELATED PROJECTS; (3) TWELVE TRANSPARENCIES HELPING TO DEVELOP THE CONCEPT OF WHAT AN ENVIRONMENT IS. SIX ILLUSTRATE DIFFERENT PARTS OF MAN'S ENVIRONMENT-HIS HOME, NEIGHBORHOOD, CITY, REGION, CONTINENT, AND EARTH-AND SIX SHOW VARIOUS ENVIRONMENTS OF PLANTS AND ANIMALS AND THEIR INTERDEPENDENCE; (4) TWENTY BLACK AND WHITE PHOTOS WHICH CONTRAST THE BEAUTIFUL AND UGLY, THE INSPIRING AND DEPRESSING; (5) A LARGE, TWO-SIDED POSTER, "THIS LAND IS YOUR LAND," POINTING OUT CHOICES FOR GOOD OR ILL THAT CITIZENS MUST MAKE; (6) A 7 INCH LP RECORD WITH FIVE FOLKSONGS, EACH RELATING TO A MAJOR PROGRAM CONCEPT; AND (7) TWENTY-FOUR INDIVIDUAL SONG SHEETS CONTAINING WORDS OF THE SONGS ON THE RECORD. A RELATED DOCUMENT IS KIT I, LOOK AROUND YOU. (BL)

AVAILABILITY: SCHOLASTIC BOOK SERVICES, 904 SYLVAN AVENUE, ENGLEWOOD CLIFFS, NEW JERSEY 07632 (KIT II, #4308, $24.00)

ACCESSION NUMBERS: ED050956 SE011242

PUBLICATION DATE: 71

TITLE: LOOK AROUND YOU, KIT I.

DESCRIPTOR: AUDIOVISUAL AIDS; *ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; MULTIMEDIA INSTRUCTION; SCIENCE EDUCATION; SOCIAL STUDIES; *TEACHING GUIDES; *UNIT PLAN

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 64P.

ISSUE: RIESEP71

DEVELOPING PUPILS' AWARENESS OF THEIR ENVIRONMENT, LEARNING TO DISTINGUISH BETWEEN WHAT IS PLEASANT AND UNPLEASANT, AND EXAMINING ACTS OF MAN TO DETERMINE WHICH ARE DESTRUCTIVE AND WHICH ARE IN HARMONY WITH NATURE ARE THE PURPOSES OF SCHOLASTIC'S EARTH CORPS ENVIRONMENTAL STUDY KITS FOR GRADES 1-6. THIS KIT IS DESIGNED TO HELP THE CHILD DEVELOP CRITICAL AWARENESS OF HIS SURROUNDINGS. INCLUDED IN THE INSTRUCTIONAL MATERIALS ARE: (1) STUDENT ACTIVITY BOOKS WITH READING MATTER, ILLUSTRATIONS, WRITTEN AND CREATIVE WORK, WORD AND PICTURE GAMES; (2) A TEACHER'S GUIDE WITH SUGGESTIONS FOR PAGE BY PAGE USE OF THE STUDENT BOOKLET, BACKGROUND INFORMATION, TEACHING PROCEDURES, DISCUSSION QUESTIONS, AND RELATED PROJECTS; (3) TWELVE TRANSPARENCIES HELPING TO DEVELOP THE CONCEPT OF WHAT AN ENVIRONMENT IS. SIX ILLUSTRATE DIFFERENT PARTS OF MAN'S ENVIRONMENT-HIS HOME, NEIGHBORHOOD, CITY, REGION, CONTINENT, AND EARTH-AND SIX SHOW VARIOUS ENVIRONMENTS OF PLANTS AND ANIMALS AND THEIR INTERDEPENDENCE; (4) TWENTY BLACK AND WHITE PHOTOS WHICH CONTRAST THE BEAUTIFUL AND UGLY, THE INSPIRING AND DEPRESSING; (5) A LARGE, TWO-SIDED POSTER, "THIS LAND IS YOUR LAND," POINTING OUT CHOICES FOR GOOD OR ILL THAT CITIZENS MUST MAKE; (6) A 7 INCH LP RECORD WITH FIVE FOLKSONGS, EACH RELATING TO A MAJOR PROGRAM CONCEPT; AND (7) TWENTY-FOUR INDIVIDUAL SONG SHEETS CONTAINING WORDS OF THE SONGS ON THE RECORD. A RELATED DOCUMENT IS KIT II, FIRST FOLLOW NATURE. (BL)

AVAILABILITY: SCHOLASTIC BOOK SERVICES, 904 SYLVAN AVENUE, ENGLEWOOD CLIFFS, NEW JERSEY 07632 (KIT I, #4307, $24.00)

ACCESSION NUMBERS: ED050947 SE010981

PUBLICATION DATE: 70

TITLE: ENVIRONMENTS, TEACHER'S GUIDE.

INSTITUTION CODE: CIQ11450

DESCRIPTOR: EDUCATIONAL PROGRAMS; *ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL INFLUENCES; INSTRUCTION; LEARNING ACTIVITIES; STUDENT PROJECTS; *TEACHING GUIDES; *UNIT PLAN

IDENTIFIER: SCIENCE CURRICULUM IMPROVEMENT STUDY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 101P.

ISSUE: RIESEP71

THE SCIENCE CURRICULUM IMPROVEMENT STUDY HAS DEVELOPED THIS TEACHER'S GUIDE TO ENVIRONMENTS, THE FOURTH PART OF A SIX UNIT LIFE SCIENCE CURRICULUM SEQUENCE. THE SIX BASIC UNITS, EMPHASIZING ORGANISM-ENVIRONMENT INTERACTIONS, ARE ORGANISMS, LIFE CYCLES, POPULATIONS, ENVIRONMENTS, COMMUNITIES, AND ECOSYSTEMS, AND MAKE USE OF SCIENTIFIC AND PROCESS-ORIENTED CONCEPTS APPROPRIATE TO THE STUDY OF LIFE. ENVIRONMENTS DEALS WITH PHYSICAL CONDITIONS THAT SHAPE AN ORGANISM'S ENVIRONMENT AND STRESSES THE CONCEPTS OF ENVIRONMENT, ENVIRONMENTAL FACTORS, RANGE, AND OPTIMUM RANGE. TOPICS OF THE FIVE-PART UNIT ARE ENTITLED: AN ORGANISM'S ENVIRONMENT; THE CHANGES OUTSIDE; ANIMAL RESPONSES TO ENVIRONMENTAL FACTORS; PLANT RESPONSES TO ENVIRONMENTAL FACTORS; AND THE TOTAL ENVIRONMENT. SUGGESTIONS ARE PRESENTED FOR THE TEACHER TO USE AN EXPLORATION-INVENTION-DISCOVERY APPROACH TO LEARNING. ACTIVITIES AND EXPERIMENTS LEAD TO CLARIFICATION OF THE CONCEPTS AND PROVIDE EXPERIENCE IN MEASUREMENT SKILLS AND CRITICAL THINKING BY THE STUDENTS. (BL)

AVAILABILITY: RAND MCNALLY & COMPANY, P. O. BOX 7600, CHICAGO, ILLINOIS 60680

INSTITUTION NAME: CALIFORNIA UNIV., BERKELEY. SCIENCE CURRICULUM IMPROVEMENT STUDY.

ACCESSION NUMBERS: ED050940 SE010198

PUBLICATION DATE: 70

TITLE: EVERYMAN'S PROBLEM, AN INSTRUCTIONAL UNIT FOR SENIOR HIGH SCHOOL SCIENCE, STUDENT MANUAL AND TEACHER'S MANUAL.

PERSONAL AUTHOR: CATLIN, RICHARD; AND OTHERS

INSTITUTION CODE: LYR27820

DESCRIPTOR: AREA STUDIES; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; INTERDISCIPLINARY APPROACH; LEARNING ACTIVITIES; *MANUALS; NATURAL RESOURCES; POLLUTION; *SECONDARY SCHOOL SCIENCE; *STUDENT PROJECTS

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 163P.

ISSUE: RIESEP71

THIS STUDENT MANUAL AND ACCOMPANYING TEACHERS' GUIDE FOR SENIOR HIGH SCHOOL SCIENCE PROVIDE AN IN-DEPTH STUDY OF A COMMUNITY-HOW IT WAS ESTABLISHED AND DEVELOPED. IT EMPHASIZES THE ENVIRONMENTAL CHANGES WHICH HAVE OCCURRED THROUGH THE USE AND MANAGEMENT OF ITS NATURAL RESOURCES. A SERIES OF EXPERIMENTS IN NUMEROUS AREAS PROVIDES STUDENTS AN OPPORTUNITY TO INVESTIGATE THE CAUSES FOR CHANGE. EACH EXPERIMENT INDICATES THE MATERIALS NEEDED, THE PROCEDURE TO FOLLOW, AND ASKS QUESTIONS TO HELP INTERPRET THE RESULTS. THE TEACHERS' MANUAL ALSO INCLUDES SUGGESTIONS REGARDING PREPARATION FOR THE EXPERIMENT, PROCEDURES, EXPECTED RESULTS, RESPONSES TO INTERPRETATION QUESTIONS, ASSESSMENT TASKS, AND ACCEPTABLE RESPONSES FOR THE TASKS. FIFTY-THREE OBJECTIVES SERVE TO EVALUATE THE DEGREE OF UNDERSTANDING ACHIEVED BY THE STUDENT. (BL)

AVAILABILITY: BOARD OF EDUCATION OF BALTIMORE COUNTY, TOWSON, MD. 21204

INSTITUTION NAME: BALTIMORE COUNTY BOARD OF EDUCATION, TOWSON, MD.

ACCESSION NUMBERS: ED050939 SE010102

PUBLICATION DATE: 70

TITLE: FOCUS ON ENVIRONMENTAL EDUCATION.

PERSONAL AUTHOR: VIVIAN, V. EUGENE; RILLO, THOMAS J.

INSTITUTION CODE: BBB04999

DESCRIPTOR: *CURRICULUM DEVELOPMENT; *ENVIRONMENTAL EDUCATION; *EVALUATION TECHNIQUES; *GUIDELINES; INTERDISCIPLINARY APPROACH; *PROGRAM PLANNING; RESOURCE MATERIALS; TEACHING GUIDES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 66P.

ISSUE: RIESEP71

THE PURPOSE OF THIS GUIDE IS TO HELP EDUCATORS RELATE THE ENVIRONMENT TO THE ELEMENTARY AND SECONDARY CLASSROOM. CHAPTERS ARE CONSTRUCTED TO OFFER PRACTICAL ASSISTANCE IN PLANNING, SPECIFIC SUGGESTIONS FOR PROGRAMS, AND EVALUATION GUIDELINES FOR TEACHERS, ADMINISTRATORS, AND MEMBERS OF BOARDS OF EDUCATION. CONSIDERED ARE GUIDING PRINCIPLES FOR ENVIRONMENTAL EDUCATION; CURRICULUM, RESOURCE, AND FINANCIAL FACTORS; MASTER PLANNING AND ORGANIZING THE PROGRAM; AND UTILIZING SCHOOL SITE RESOURCES. PROGRAM SUGGESTIONS DIRECT ATTENTION TO THE LANGUAGE ARTS, SOCIAL SCIENCES, SCIENCE, MATHEMATICS, MUSIC, ARTS AND CRAFTS, AND HEALTH, PHYSICAL EDUCATION, AND RECREATION. EVALUATION DESIGNS EXAMINE STRATEGIES FOR EVALUATION, A SYSTEMS ANALYSIS APPROACH, CONSIDERATION OF BEHAVIORAL OBJECTIVES, AND TECHNIQUES AND INSTRUMENTS FOR EVALUATION. REFERENCE HELP IN THE FORM OF BOOKS, FILMS, AND FILMSTRIPS IS ALSO LISTED. (BL)

AVAILABILITY: THE CURRICULUM DEVELOPMENT COUNCIL FOR SOUTHERN NEW JERSEY, GLASSBORO STATE COLLEGE, NEW JERSEY ($2.00)

INSTITUTION NAME: GLASSBORO STATE COLL., N.J. CURRICULUM DEVELOPMENT COUNCIL FOR SOUTHERN NEW JERSEY.

ACCESSION NUMBERS: ED050596 EM008956

PUBLICATION DATE: 71

TITLE: GUIDE TO FILMS (16 MM) ABOUT ECOLOGY, ADAPTATION AND POLLUTION.

DESCRIPTOR: AIR POLLUTION CONTROL; BIOLOGICAL SCIENCES; CATALOGS; ECOLOGICAL FACTORS; *ECOLOGY; ENVIRONMENT; ENVIRONMENTAL EDUCATION; *FILMS; INSTRUCTIONAL FILMS; MARINE BIOLOGY; *NATURAL SCIENCES; PESTICIDES; *POLLUTION; SANITATION IMPROVEMENT; WATER POLLUTION CONTROL; ZOOLOGY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 55P.

ISSUE: RIESEP71

SYNOPSES OF 350 FILMS (16 MM.) ON ECOLOGY, ADAPTATION OF PLANTS AND ANIMALS TO THEIR ENVIRONMENT, AND ENVIRONMENTAL POLLUTION ARE LISTED ALPHABETICALLY BY TITLE IN THIS GUIDE. IT SPECIFIES WHETHER THE FILM IS BLACK-AND-WHITE OR COLOR, ITS RUNNING TIME, AND ITS SOURCE. AN ABBREVIATED SUBJECT INDEX AND A DIRECTORY OF SOURCES ARE ALSO PROVIDED. THE FILMS ARE AVAILABLE PRIMARILY ON A SALE AND/OR RENTAL BASIS, ALTHOUGH A FEW CAN BE OBTAINED ON FREE LOAN. SOME SAMPLE TITLES ARE: CHAIN OF LIFE; ANIMALS PROTECT THEMSELVES; BALANCE IN NATURE; HEREDITY AND ADAPTIVE CHANGE; POPULATION ECOLOGY; EFFECTS OF AIR POLLUTION; THE GARBAGE EXPLOSION; AND SILENT SPRING OF RACHEL CARSON. (JY)

AVAILABILITY: SERINA PRESS, 70 KENNEDY STREET, ALEXANDRIA, VIRGINIA 22305 ($2.95)

ACCESSION NUMBERS: ED050542 EM008891

PUBLICATION DATE: 71

TITLE: A STUDY OF THE EFFECTIVENESS OF TELEVISION TEACHING OF CONSERVATION AND FOREST FIRE PREVENTION IN KINDERGARTEN AND FIRST GRADE OF SELECTED SCHOOLS IN NORTHERN CALIFORNIA: 1969-1970.

PERSONAL AUTHOR: GLADEN, FRANK H.

INSTITUTION CODE: CI014280

SPONSORING AGENCY CODE: BBB00642

DESCRIPTOR: ACHIEVEMENT TESTS; *CONSERVATION EDUCATION; *ELEMENTARY GRADES; FIRE PROTECTION; *FORESTRY; GRADE 1; *INSTRUCTIONAL TELEVISION; KINDERGARTEN; PROGRAM EFFECTIVENESS; SAFETY EDUCATION; *TELEVISED INSTRUCTION; TELEVISION TEACHERS

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 63P.

ISSUE: RIESEP71

TWENTY PROGRAMS ABOUT CONSERVATION AND FOREST FIRE PREVENTION WERE TELECAST TO KINDERGARTEN AND FIRST-GRADE CHILDREN. THE PROGRAMS, EACH 20 MINUTES LONG, WERE ESPECIALLY PREPARED FOR THAT AGE GROUP. TESTING OF EXPERIMENTAL AND CONTROL GROUPS SHOWED THAT THE TELECASTS WERE OUTSTANDINGLY SUCCESSFUL IN TEACHING CONCEPTS ABOUT THOSE SUBJECTS, PARTICULARLY TO FIRST GRADERS. ALTHOUGH MINOR DIFFICULTIES WERE ENCOUNTERED IN BROADCAST RECEPTION AND IN HAVING SUITABLE SITUATIONS OR EQUIPMENT FOR THE VIEWING TIME, THE SERIES MET WITH GENERAL APPROVAL FROM TEACHERS AND ADMINISTRATORS. CLASSROOM TEACHERS FELT THAT THE TECHNICAL PRODUCTION WAS NOT UP TO COMMERCIAL TELEVISION QUALITY AND THAT THE TELEVISION TEACHER PRESENTED THE MATERIAL WELL BUT SHOULD HAVE SUPPLEMENTED HER LECTURES WITH OTHER TYPES OF MATERIAL. (JK)

INSTITUTION NAME: CHICO STATE COLL., CALIF.

SPONSORING AGENCY NAME: FOREST SERVICE (DOA), WASHINGTON, D.C.

ACCESSION NUMBERS: ED050004 SO001288

PUBLICATION DATE: 16 DEC 70

TITLE: THE TWENTY-ONE ESSENTIAL READINGS IN POPULATION EDUCATION.

PERSONAL AUTHOR: BURLESON, DAVID

INSTITUTION CODE: BBB04947

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; CURRICULUM DEVELOPMENT; DEMOGRAPHY; ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; *OVERPOPULATION; *POPULATION GROWTH; REFERENCE MATERIALS; RESOURCE GUIDES; SECONDARY GRADES; TEACHING GUIDES

IDENTIFIER: *POPULATION EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 12P.

ISSUE: RIEAUG71

EDUCATORS INTERESTED IN RESPONDING TO THE NEED FOR POPULATION AWARENESS WILL FIND THIS GENEROUSLY ANNOTATED BIBLIOGRAPHY OF READINGS A USEFUL AID IN SIFTING THROUGH A GROWING AMOUNT OF MATERIAL. THE ITEMS INCLUDE MONOGRAPHS, TEXTBOOKS, JOURNAL ARTICLES, AND GOVERNMENT DOCUMENTS, MOST OF WHICH WERE PUBLISHED WITHIN THE LAST TWO YEARS. PRICE AND AVAILABILITY INFORMATION IS INCLUDED FOR EACH ENTRY. IN ADDITION TO PROVIDING A BROAD VIEW OF THE FIELD OF POPULATION EDUCATION, THE ITEMS ARE INDICATIVE OF THE ORGANIZATIONS, INSTITUTIONS, AND INDIVIDUALS TO WHOM EDUCATORS MIGHT TURN FOR ASSISTANCE AND INFORMATION. THE READINGS COVER SUCH ISSUES AS: NATIONAL AND INTERNATIONAL FAMILY PLANNING EDUCATION INTO THE CURRICULUM; AND GUIDES FOR THE CLASSROOM TEACHER. (JLB)

INSTITUTION NAME: NORTH CAROLINA UNIV., CHAPEL HILL. CAROLINA POPULATION CENTER.

ACCESSION NUMBERS: ED049986 SO001153

PUBLICATION DATE: 68

TITLE: NUFFIELD FOUNDATION 'RESOURCES FOR LEARNING' PROJECT. A MULTI-MEDIA PROGRAMMED APPROACH TO ENVIRONMENTAL STUDIES.

PERSONAL AUTHOR: KEFFORD, COLIN W.

SPONSORING AGENCY CODE: BBB09909

DESCRIPTOR: AUDIOVISUAL INSTRUCTION; CURRICULUM RESEARCH; *ENVIRONMENTAL EDUCATION; *FIELD INSTRUCTION; GEOGRAPHY INSTRUCTION; JUNIOR HIGH SCHOOLS; *MULTIMEDIA INSTRUCTION; *PROGRAMED UNITS; PROJECTS; RURAL ENVIRONMENT; SECONDARY GRADES; SIMULATION; *SOCIAL STUDIES UNITS; TRANSPORTATION; URBAN ENVIRONMENT

IDENTIFIER: *ENGLAND; RESOURCES FOR LEARNING PROJECT

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 11P.

ISSUE: RIEAUG71

THIS DESCRIPTION OF A UNIT FOR TEACHING ABOUT THE ENVIRONMENT AT THE JUNIOR HIGH LEVEL IS AN EXPERIMENTAL STUDY. THE FOCUS OF THE PROGRAM IS THE INTEGRATION OF SEVERAL MEDIA: FILMS AND TAPES PLAY A LARGE ROLE IN THE UNIT. STUDENTS PERFORM A COMBINATION OF CLASSROOM WORK, FIELD WORK, AND SIMULATED EXERCISES; ASSESSMENT PROCEDURES ARE DESCRIBED. UNITS DEVELOPED TO DATE INCLUDE: TRAFFIC, HIGHWAY CODES, RAILWAYS, FARMING, ROADS, AND HOUSES. (CWB)

SPONSORING AGENCY NAME: NUFFIELD FOUNDATION, LEEDS (ENGLAND).

ACCESSION NUMBERS: ED049972 SO001031

PUBLICATION DATE: 68

TITLE: GEOGRAPHY. SENIOR DIVISION.

INSTITUTION CODE: SE068743

DESCRIPTOR: *AREA STUDIES; CURRICULUM GUIDES; DEDUCTIVE METHODS; ENVIRONMENTAL EDUCATION; GEOGRAPHIC CONCEPTS; GEOGRAPHY; GRADE 11; GRADE 12; INDUCTIVE METHODS; INFORMATION UTILIZATION; *INQUIRY TRAINING; INTEGRATED CURRICULUM; MAP SKILLS; RESEARCH SKILLS; SECONDARY GRADES; *SOCIAL STUDIES UNITS; *STUDENT RESEARCH; *WORLD GEOGRAPHY; WORLD PROBLEMS

IDENTIFIER: *CANADA

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 45P.; ENGLISH AND FRENCH EDITIONS

ISSUE: RIEAUG71

AN INTEGRATED SECONDARY CURRICULUM IS OUTLINED IN THIS PARTICULAR GUIDE FOR CANADIAN SCHOOLS. THE GRADE 11 WORLD GEOGRAPHY COURSE IS INTENDED TO HELP STUDENTS PLACE GEOGRAPHIC CONCEPTS DEVELOPED IN THE FIRST TEN YEARS OF SCHOOL INTO A SYSTEMATIC FRAMEWORK. HERE CONSERVATION OF ALL RESOURCES IS AN IMPORTANT TOPIC: WATER RESOURCES AND POLLUTION, URBAN AND INDUSTRIAL POLLUTION, AND THE STUDY OF SOIL RESOURCES AND THEIR LOSS. THE PRIMARY GOALS ARE: STUDENT MENTAL DEVELOPMENT, THE ACQUISITION OF INFORMATION UTILIZATION SKILLS, AND UNDERSTANDING OF THE BASIC FRAMEWORK OF RESEARCH. TEACHING TECHNIQUES SHOULD ENCOURAGE DEDUCTIVE AND INDUCTIVE THINKING, IN DISCOVERY, IN SORTING, CLASSIFYING DATA, AND ORGANIZING INFORMATION, AND IN PRESENTING IDEAS IN GRAPHIC AND CARTOGRAPHIC FORM. THE GRADE 12 WORLD GEOGRAPHY COURSE SUPPLEMENTS THIS WITH REGIONAL GEOGRAPHY OR STUDY. THE PURPOSE HERE IS TO PROVIDE THE STUDENT WITH IN DEPTH KNOWLEDGE OF SEVERAL AREAS OF THE WORLD, AND UNDERSTANDING OF THE RESEARCH METHODS. THE STUDENT SHOULD APPROACH MAPS AND DATA WITH THE VIEW OF ANALYSING ECONOMIC AND SOCIAL PROBLEMS, TRACING THE ORIGINS AND TRENDS OF CURRENT CONDITIONS. IN GRADE 13, THE STUDENTS' RESEARCH SKILLS ARE DEVELOPED FURTHER THROUGH THE STUDY OF CANADA'S GEOGRAPHIC PROBLEMS: PHYSICAL, ECONOMIC, POLITICAL, SOCIAL, AND URBAN. THE STUDENTS SHOULD BE ABLE TO MAKE AN INTENSIVE ANALYSIS OF THESE FACTORS THROUGH INDIVIDUAL RESEARCH, LOCAL AND REGIONAL FIELD AND LABORATORY WORK. (SBE)

INSTITUTION NAME: ONTARIO DEPT. OF EDUCATION, TORONTO.

ACCESSION NUMBERS: ED049946 SE011237

PUBLICATION DATE: MAR 71

TITLE: ENVIRONMENTAL EDUCATION FOR NEW HAMPSHIRE ELEMENTARY AND SECONDARY SCHOOLS.

INSTITUTION CODE: BBB03363

DESCRIPTOR: BULLETINS; *CURRICULUM; ELEMENTARY SCHOOLS; *ENVIRONMENTAL EDUCATION; FIELD STUDIES; *PROGRAM DESCRIPTIONS; RESOURCE MATERIALS; SECONDARY SCHOOLS; TEACHING GUIDES

IDENTIFIER: NEW HAMPSHIRE

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 22P.

ISSUE: RIEAUG71

A COPY OF THE POLICY STATEMENT ON ENVIRONMENTAL EDUCATION ADOPTED BY THE NEW HAMPSHIRE STATE BOARD OF EDUCATION. INCLUDED ARE A SET OF GUIDELINES FOR THE DEVELOPMENT OF ENVIRONMENTAL EDUCATION PROGRAMS, AND AN ANNOTATED LIST OF SEVEN PROGRAMS IN EXISTENCE IN THE STATE. SUGGESTED STEPS FOR DEVELOPING ENVIRONMENTAL STUDY SITES, AND SOME POSSIBLE INTERDISCIPLINARY USES OF SUCH SITES ARE GIVEN WITH REFERENCES TO APPROPRIATE PUBLICATIONS. A LIST OF PEOPLE AND AGENCIES IN NEW HAMPSHIRE THAT MAY BE CONTACTED BY SCHOOLS IS PROVIDED, WITH THE CAUTION THAT STUDENTS SHOULD HAVE APPROPRIATE BACKGROUND INFORMATION BEFORE ASKING FOR ASSISTANCE AND INFORMATION. (AL)

REPORT NUMBER: CURRC-BULL-1

INSTITUTION NAME: NEW HAMPSHIRE STATE DEPT. OF EDUCATION, CONCORD. DIV. OF INSTRUCTION.

ACCESSION NUMBERS: ED049941 SE011186

PUBLICATION DATE: 71

TITLE: EDUCATIONAL PRODUCT REPORT, NUMBERS 33/34, ENVIRONMENTAL EDUCATION MATERIALS.

INSTITUTION CODE: QPX23895

DESCRIPTOR: CURRICULUM DEVELOPMENT; *EDUCATIONAL RESOURCES; *ENVIRONMENTAL EDUCATION; INFORMATION SOURCES; INSTRUCTIONAL AIDS; PROGRAM DESCRIPTIONS; *PUBLICATIONS; *REFERENCE MATERIALS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 98P.

ISSUE: RIEAUG71

CONTAINED IN THIS REPORT ARE A VARIETY OF MATERIALS TO HELP TEACHERS AND SCHOOL ADMINISTRATORS UNDERSTAND AND DEVELOP ENVIRONMENTAL EDUCATION CURRICULA. ENVIRONMENTAL EDUCATION: WHAT IS IT? WHAT SHOULD IT BE? IS THE INTRODUCTORY UNIT. PUBLIC STATEMENTS FROM EIGHT INDIVIDUALS ARE PRESENTED EXPRESSING POSITIONS TAKEN ON BASIC ISSUES OF THE PRESENT STATUS AND FUTURE DIRECTION OF ENVIRONMENTAL EDUCATION. REMARKS ARE EXTRACTED FROM SPEECHES, PUBLIC HEARINGS, PAPERS, AND INTERVIEWS. MAJOR EMPHASIS IS PLACED ON THE SECOND UNIT, A PRODUCT INFORMATION SUPPLEMENT OF ENVIRONMENTAL EDUCATION MATERIALS--BOOKS AND FILMS RELATED TO THE BROAD ASPECTS OF ENVIRONMENTAL EDUCATION. EACH NOTATION INCLUDES TITLE, AUTHOR, PUBLICATION DATA, PHYSICAL DATA, AND ORGANIZATION AND CONTENT INFORMATION. IN ADDITION, ORGANIZATIONS, PUBLISHERS, CLASSROOM KITS AND EQUIPMENT, PERIODICALS, AND INFORMATION AGENCIES ARE LISTED. THE FINAL UNIT INVESTIGATES THREE ENVIRONMENTAL EDUCATION PROGRAMS IN PROGRESS IN AN ATTEMPT TO DETERMINE WHY THESE PROGRAMS ARE SUCCESSFUL AND HOW THEY MIGHT ACT AS MODELS FOR THE DEVELOPMENT OF OTHER CURRICULUM ENRICHMENT PROGRAMS. THESE ARE LOCATED IN: THEODORE ROOSEVELT ISLAND, WASHINGTON, D.C.; ARLINGTON COUNTY, VIRGINIA; AND HERKIMER COUNTY, NEW YORK. (BL)

AVAILABILITY: EPIE, 386 PARK AVE SOUTH, NEW YORK, N.Y. 10016 ($7.00)

INSTITUTION NAME: EDUCATIONAL PRODUCTS INFORMATION EXCHANGE INST., NEW YORK, N.Y.

ACCESSION NUMBERS: ED049939 SE011181

PROGRAM AREA: 24

PUBLICATION DATE: 15 FEB 71

TITLE: AN EVALUATION OF THE SCIENCE CURRICULUM IMPROVEMENT STUDY (SCIS) MATERIAL OBJECTS UNIT AT THE KINDERGARTEN LEVEL. FINAL REPORT.

PERSONAL AUTHOR: STAFFORD, DON G.

INSTITUTION CODE: BBB02980

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: *ACHIEVEMENT; *CONSERVATION (CONCEPT); *ELEMENTARY SCHOOL SCIENCE; EVALUATION; *INSTRUCTION; *KINDERGARTEN; READINESS; SCIENTIFIC CONCEPTS

IDENTIFIER: PIAGET; SCIENCE CURRICULUM IMPROVEMENT STUDY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 65P.

ISSUE: RIEAUG71

STUDIED WERE EIGHT SECTIONS OF KINDERGARTEN CHILDREN TAUGHT BY FOUR TEACHERS IN THE GLENWOOD PUBLIC SCHOOL, ADA, OKLAHOMA. FOUR EXPERIMENTAL SECTIONS USED THE SCIS MATERIAL OBJECTS ELEMENTARY SCHOOL SCIENCE ACTIVITIES DURING THE 1969-70 SCHOOL YEAR. FOUR CONTROL SECTIONS PARTICIPATED IN OTHER NON-STRUCTURED AND LESS SEQUENTIAL SCIENCE ACTIVITIES. INVESTIGATED WERE: 1) APPROPRIATENESS OF UNIT FOR KINDERGARTEN; 2) CHILDREN'S INTEREST; AND 3) ACHIEVEMENT IN READING READINESS, READING, ARITHMETIC, MENTAL ABILITY AND PIAGET CONSERVATION TASK SCORES. CONSERVATION AND ABILITY TESTS WERE ADMINISTERED BEFORE AND AFTER TREATMENTS. READING READINESS AND ARITHMETIC AND READING ACHIEVEMENT TESTS WERE ADMINISTERED AS POSTTESTS. INVESTIGATOR DEVELOPED EVALUATION BOOKLETS AND AN INTEREST INSTRUMENT WAS USED DURING THE SCIENCE UNIT. IT WAS CONCLUDED THAT: 1) THE SCIS MATERIAL OBJECTS UNIT WAS APPROPRIATE FOR AND OF INTEREST TO KINDERGARTEN CHILDREN; 2) TEACHER DIFFERENCES WERE APPARENT; 3) ENHANCEMENT OF READINESS AND FIRST GRADE ACHIEVEMENT WAS NOT CLEARLY DEMONSTRATED; AND 4) ABILITY TO PERFORM PIAGET CONSERVATION TASKS WAS SIGNIFICANTLY INCREASED. (AUTHOR/JM)

GRANT NUMBER: OEG-7-70-0148

BUREAU NUMBER: BR-0-G-016

INSTITUTION NAME: EAST CENTRAL STATE COLL., ADA, OKLA.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBERS: ED049929 SE011120

PUBLICATION DATE: MAR 71

TITLE: UNIT THE WORLD OF THE SOIL, FIRST TRIAL MATERIALS, INSPECTION SET, AUSTRALIAN SCIENCE EDUCATION PROJECT .

INSTITUTION CODE: BXG05045

DESCRIPTOR: *CURRICULUM; DISCOVERY LEARNING; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; SCIENCE ACTIVITIES; *SECONDARY SCHOOL SCIENCE; *SOIL SCIENCE; *UNITS OF STUDY (SUBJECT FIELDS)

IDENTIFIER: AUSTRALIAN SCIENCE EDUCATION PROJECT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 104P.

ISSUE: RIEAUG71

THE AUSTRALIAN SCIENCE EDUCATION PROJECT IS PRODUCING MATERIALS DESIGNED FOR USE IN GRADES 7 - 10 OF AUSTRALIAN SCHOOLS. THIS IS THE FIRST TRIAL VERSION OF A UNIT EXPECTED TO TAKE ABOUT 20 40-MINUTE PERIODS TO COMPLETE. INCLUDED ARE A TEACHER'S GUIDE TO THE UNIT, FOUR PUPIL BOOKLETS ("LOOKING AT SOILS," "THINGS TO DO WITH SOILS," "WHAT IS IT CALLED?" AND "WHAT HAVE YOU FOUND OUT?"), A RECORD BOOK, AND SEVEN WORKSHEETS TO GUIDE STUDENTS THROUGH THE BASIC PORTIONS OF THE UNIT. OTHER ACTIVITIES ARE UNSTRUCTURED AND OPEN-ENDED. IN THE BASIC PARTS OF THE UNIT PHYSICAL AND BIOLOGICAL COMPONENTS OF SOIL ARE EXAMINED, WITH KEYS PROVIDED TO HELP IDENTIFY ORGANISMS AND SOIL TYPES; THE USE OF SOIL IN ENGINEERING, POTTERY, AGRICULTURE, AND GARDENING ARE INVESTIGATED; THE CAUSES AND PREVENTION OF EROSION STUDIED; AND THE ORIGIN OF SOIL DESCRIBED. ADDITIONAL ACTIVITIES INCLUDE SOIL PAINTING, MAKING SOIL PROFILE MODELS, INVESTIGATING SOIL MICROORGANISMS, STUDYING EARTHWORM BEHAVIOR, EXTRACTING DRINKING WATER FROM SOIL, STUDYING QUICKSAND, FERTILIZERS AND COMPOST. THE EVALUATION BOOKLET IS DESIGNED AS A LEARNING ACTIVITY, WITH COMMENTS ON ACCEPTABLE AND UNACCEPTABLE ANSWERS ON A SEPARATE ANSWER SHEET. (AL)

AVAILABILITY: AUSTRALIAN SCIENCE EDUCATION PROJECT, 11 GLENBERVIE RD., TOORAK, VICTORIA, AUSTRALIA 3142 (FREE)

INSTITUTION NAME: AUSTRALIAN COUNCIL FOR EDUCATIONAL RESEARCH, VICTORIA.

ACCESSION NUMBERS: ED049919 SE010654

PUBLICATION DATE: 70

TITLE: THE ENVIRONMENTAL SCHOOL.

PERSONAL AUTHOR: MENESINI, MARIO M.

DESCRIPTOR: *EDUCATIONAL PLANNING; *ENVIRONMENTAL EDUCATION; *INTERDISCIPLINARY APPROACH; LEARNING ACTIVITIES; NATURAL RESOURCES; OUTDOOR EDUCATION; PERCEPTION; *PROGRAM DEVELOPMENT; RESOURCE MATERIALS; *TEACHING GUIDES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 86P.

ISSUE: RIEAUG71

THE GENERAL PURPOSE OF THIS WORKBOOK-GUIDE IS TO BRING COMMON UNDERSTANDING TO THOSE CONCERNED WITH ENVIRONMENTAL EDUCATION PLANNING. THE INFORMATION IS DIRECTED BOTH TOWARD THOSE WHO HAVE EXPERIENCE IN PRODUCING ENVIRONMENTAL EDUCATION ACTIVITIES, AS WELL AS THOSE WHO HAVE HAD LITTLE OR NO CONTACT WITH SUCH PROGRAMS. THE APPROACH IS FOUR-FOLD PRESENTING: (1) AN ENVIRONMENTAL AWARENESS PROGRAM (EAP), (2) AN ENVIRONMENTAL RESOURCE BOOK FOR TEACHERS, PARK PERSONNEL, AND ALL COMMUNITY AGENCY PERSONNEL INTERESTED IN ENVIRONMENTAL EDUCATION, (3) A DETAILED PLAN ON HOW TO ADVENTURE INTO ALL THE ENVIRONMENTS - NATURAL, MAN-MADE, PRISTINE, OR POLLUTED - FOR RELEVANT EDUCATIONAL PURPOSES, AND (4) A PRACTICAL GUIDE TO ENCOURAGE THE ENVIRONMENTAL AWARENESS OF CHILDREN, ADOLESCENTS, AND ADULTS. TO THIS END THE EAP USES OUTDOOR AREAS CALLED ENVIRONMENTAL AWARENESS SITES (EAS) AND OFFERS A CONCEPTUAL FRAMEWORK CALLED "STRANDS" TO SYNTHESIZE THE MANY ELEMENTS OF ENVIRONMENTAL STUDY. THE BOOK CAN SERVE AS BOTH A CHECKLIST AND GUIDE FOR ASSESSING LOCAL ENVIRONMENTAL PROBLEMS AND POSSIBILITIES AND FOR DEVELOPING PROCEDURES THAT WILL HELP IMPLEMENT AN ENVIRONMENTAL SCHOOL PROGRAM. (BL)

AVAILABILITY: EDUCATIONAL CONSULTING SERVICE, 89 ORINDA WAY, #6, ORINDA, CALIF. 94563 ($5.00)

ACCESSION NUMBERS: ED049917 SE010418 158

PUBLICATION DATE: SEP 70

TITLE: TEACHERS GUIDE FOR ENVIRONMENTAL EDUCATION.

PERSONAL AUTHOR: FLEETWOOD, GEORGE R.; AND OTHERS

INSTITUTION CODE: QXM63750

DESCRIPTOR: BIBLIOGRAPHIES; ECOLOGY; EDUCATIONAL PHILOSOPHY; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *NATURAL RESOURCES; POLLUTION; *RESOURCE MATERIALS; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$9.87

DESCRIPTIVE NOTE: 230P.

ISSUE: RIEAUG71

THIS GUIDE HAS BEEN PREPARED AS AN AID TO THE TEACHER IN ORGANIZING CLASSROOM EXPERIENCES DESIGNED TO FOCUS ON MAN AND HIS ENVIRONMENT. IT SERVES TO IDENTIFY RESOURCES FOR USE IN STIMULATING STUDENT INTEREST, TO BROADEN THEIR COMPREHENSION AND THEIR ENVIRONMENT, AND ATTAIN CONCEPTUAL UNDERSTANDINGS. THE INITIAL SECTION PROVIDES AN ORIENTATION AND DEFINITION OF ENVIRONMENTAL EDUCATION -- WHAT ITS GOALS ARE AND HOW THEY MIGHT BE ACHIEVED. SUBSEQUENT SECTIONS RECEIVING EMPHASIS ARE ECOSYSTEMS, NATURAL RESOURCES, POLLUTION, AND ENVIRONMENTAL DECISION MAKING. WITHIN EACH AREA A UNIFYING THEME IS SELECTED AND IMPORTANT CONCEPTS SET FORTH. EACH THEME AND GROUP OF RELATED CONCEPTS IS FOLLOWED BY BACKGROUND INFORMATION. IN ADDITION, FREE AND INEXPENSIVE BOOKS, FILMS, FILMSTRIPS, RECORDS, TAPES, BOOKLETS, UNITS, PAMPHLETS, AND OTHER RESOURCES ARE INCLUDED UNDER EACH AREA. PAGE 32 IS OF QUESTIONABLE REPRODUCIBILITY. (BL)

INSTITUTION NAME: NORTH CAROLINA STATE BOARD OF EDUCATION, RALEIGH. DEPT. OF PUBLIC INSTRUCTION.

ACCESSION NUMBERS: ED049916 SE010110

PUBLICATION DATE: 71

TITLE: CONSERVATION.

INSTITUTION CODE: BBB02147

DESCRIPTOR: *CONSERVATION EDUCATION; ECOLOGY; *INSTRUCTIONAL MATERIALS; *LEARNING ACTIVITIES; MANUALS; *NATURAL RESOURCES; SCIENCE ACTIVITIES; *STUDENT PROJECTS; TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 74

ISSUE: RIEAUG71

THE FIRST SECTION OF THIS MANUAL HAS BEEN DEVELOPED TO HELP LEADERS AND YOUTH EXAMINE AND GRADUALLY UNDERSTAND SOME OF THE MORE COMPLEX ENVIRONMENTAL FACTORS. IT HELPS TO EXPLAIN WHAT THINGS ARE WHERE AND WHY, WHY A CERTAIN PROJECT HAS BEEN SUGGESTED, WHETHER IT IS A PRACTICAL ONE FOR A GIVEN PLACE, AND WHAT MUST BE KNOWN BEFORE IT CAN BE INTELLIGENTLY CARRIED OUT. ACTIVITIES AND PROJECTS DESCRIBED IN THE SECOND SECTION DEAL WITH SOIL AND LAND, WATER, FORESTS, WILDLIFE, MINERALS, AND HUMAN RESOURCES. INDICATED FOR EACH EXERCISE IS ITS PURPOSE, SUITABLE SITE, AND PROCEDURE TO ACCOMPLISH THE STATED GOAL. THESE IDEAS ARE SUGGESTED TO DEVELOP AND UTILIZE SKILLS IN ANALYZING AND ALLEVIATING CONSERVATION NEEDS. THE APPENDIX PRESENTS A CONSERVATION DIRECTORY OF FEDERAL, STATE, AND LOCAL AGENCIES AND PRIVATE ORGANIZATIONS TO WHICH ONE MAY WRITE FOR MATERIALS OR INFORMATION CONCERNING CONSERVATION PRACTICES AND NATURAL RESOURCES. (BL)

AVAILABILITY: CAMP FIRE GIRLS, INC., 16 EAST 48TH ST., NEW YORK, N.Y. 10017

INSTITUTION NAME: CAMP FIRE GIRLS, INC., NEW YORK, N.Y.

ACCESSION NUMBERS: ED049915 SE009809

PUBLICATION DATE: 70

TITLE: LAKE POLLUTION IN THE YAHARA WATERSHED.

INSTITUTION CODE: ZQU44500

DESCRIPTOR: AUDIOVISUAL AIDS: *ENVIRONMENTAL EDUCATION: FILMSTRIPS: *INSTRUCTIONAL MATERIALS: *INTERMEDIATE GRADES: *TEACHING GUIDES: WATER POLLUTION CONTROL: *WATER RESOURCES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 26P.

ISSUE: RIEAUG71

AUDIO-VISUAL MEDIA ARE UTILIZED IN THIS TEACHER'S GUIDE FOR AN INTERDISCIPLINARY UNIT IN THE MIDDLE GRADES. A FILMSTRIP IS EMPLOYED TO INCREASE THE STUDENT'S UNDERSTANDING OF HOW POLLUTION PROBLEMS DEVELOP, AND SOME OF THE STEPS NECESSARY IN WORKING OUT SOLUTIONS, AS INTERPRETATION OF HISTORICAL CHANGES, SCIENTIFIC ANALYSIS, AND GOVERNMENT INVOLVEMENT. THE FILMSTRIP IS EXPLAINED IN ITS ENTIRETY, ILLUSTRATING EACH FRAME AND ITS ACCOMPANYING SCRIPT. ANNOTATED BIBLIOGRAPHIC NOTATIONS FOR TEACHERS ARE INCLUDED AND DIVIDED INTO THREE PARTS: (1) RAINFALL, HYDROLOGIC CYCLE, AND WATERSHEDS, (2) FRESH WATER ECOLOGY, WETLAND PLANTS AND ANIMALS, NATURAL SUCCESSION IN LAKES, AND MARSHES, AND (3) EFFECTS OF MAN-POLLUTION, PESTICIDES, AND CULTURAL EUTROPHICATION. RESOURCE MATERIALS CONCERNING LAKE MENDOTA ARE ALSO LISTED. THE INFORMATION IS SUITABLE FOR USE IN CONNECTION WITH SCIENCE UNITS ON FRESH WATER BIOLOGY OR WATER POLLUTION AND FOR SOCIAL STUDIES UNITS RELATED TO EFFECTS OF URBANIZATION OR TO EVALUATING THE EFFECTIVENESS OF GOVERNMENTAL UNITS IN HANDLING ENVIRONMENTAL PROBLEMS. FILMSTRIP NOT INCLUDED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BL)

INSTITUTION NAME: MADISON PUBLIC SCHOOLS, WIS.

ACCESSION NUMBERS: ED049914 SE009808

PUBLICATION DATE: 70

TITLE: EXPLORING HO-NEE-UM IN THE SPRING.

INSTITUTION CODE: ZQU44500

DESCRIPTOR: AUDIOVISUAL AIDS; ECOLOGY; *ELEMENTARY GRADES; FILMSTRIPS; *INSTRUCTIONAL MATERIALS; INSTRUCTIONAL TRIPS; *NATURAL RESOURCES; *OUTDOOR EDUCATION; *TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 27P.

ISSUE: RIEAUG71

APPRECIATION AND CONCERN FOR THE PRESERVATION OF OUR NATURAL RESOURCES BY ALL CITIZENS IS THE PRIMARY CONCERN OF THIS TEACHER'S GUIDE FOR USE IN GRADES THREE AND FOUR. IT EMPLOYS THE USE OF A FILMSTRIP IN CONJUNCTION WITH A LOCAL NATURE TRAIL, TO GUIDE STUDENTS IN DEVELOPING AWARENESS--BY LOOKING CLOSELY, LISTENING, TOUCHING, AND SMELLING. THE FILMSTRIP IS EXPLAINED IN ITS ENTIRETY, ILLUSTRATING EACH FRAME AND ITS ACCOMPANYING SCRIPT. QUESTIONS IN THE SCRIPT ARE DESIGNED TO ENCOURAGE CLASS DISCUSSION DURING THE VIEWING TIME. BRACKETED PARAGRAPHS PROVIDE THE TEACHER WITH ADDITIONAL INFORMATION. ALSO PROVIDED IS AN OUTLINE OF IDEAS WHICH APPEAR IN THE SCRIPT TOUCHING UPON SPRING CHANGES, HABITAT, EFFECTS OF MAN ON THE ENVIRONMENT, AND PAST OCCURRENCES. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. FILMSTRIP NOT INCLUDED. (BL)

INSTITUTION NAME: MADISON PUBLIC SCHOOLS, WIS.

ACCESSION NUMBERS: ED049821 PS004523

PROGRAM AREA: 24

PUBLICATION DATE: OCT 70

TITLE: THE EFFECTS OF INSTRUCTION ON THE DEVELOPMENT OF THE CONCEPT OF CONSERVATION OF NUMEROUSNESS BY KINDERGARTEN CHILDREN. REPORT FROM THE PROJECT ON INDIVIDUALLY GUIDED ELEMENTARY MATHEMATICS; PHASE 2: ANALYSIS OF MATHEMATICS INSTRUCTION.

PERSONAL AUTHOR: BENZINGER, THOMAS L.

INSTITUTION CODE: ZQU98320

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: *CONSERVATION (CONCEPT); *KINDERGARTEN CHILDREN; *MATHEMATICAL CONCEPTS; *MATHEMATICS INSTRUCTION; NUMBER CONCEPTS; *PROGRAM EFFECTIVENESS; READINESS; RECOGNITION; TEST CONSTRUCTION

IDENTIFIER: NUMEROUSNESS; PIAGET

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 46P.

ISSUE: RIEAUG71

FORTY KINDERGARTEN CHILDREN AT THE STEPHEN BULL SCHOOL IN RACINE, WISCONSIN WERE TESTED TO DETERMINE THE EFFECTS OF A SEQUENCE OF 12 EXPERIMENTAL LESSONS ON THE ABILITY OF KINDERGARTEN CHILDREN TO RECOGNIZE AND CONSERVE NUMEROUSNESS. SUBJECTS WERE 40-LOW-TO-MIDDLE SOCIOECONOMIC LEVEL CHILDREN DIVIDED INTO TREATMENT AND CONTROL GROUPS. A SPECIALLY DEVELOPED TEST OF NUMEROUSNESS (ARITHMETIC READINESS) SERVED AS A PRE- AND POSTTEST. THE LESSONS WERE DESIGNED TO GIVE EXPERIENCE WITH ONE-TO-ONE CORRESPONDENCE AND COMPARISONS BY COUNTING, RELATIVE SIZE AND/OR RELATIVE DENSITY. NO SIGNIFICANT DIFFERENCES WERE OBSERVED BETWEEN THE MEAN GAIN SCORES OF THE EXPERIMENTAL AND CONTROL GROUPS. HOWEVER, SIGNIFICANT DIFFERENCES WERE OBSERVED BETWEEN THE MEAN GAIN SCORES OF CHILDREN IN THE TREATMENT GROUPS WHO ATTENDED THE HALF-DAY SESSION AND THOSE ATTENDING A SPECIAL FULL-DAY PROGRAM. A SIMILAR RESULT WAS OBSERVED WITHIN THE CONTROL GROUPS. RESULTS INDICATE THAT THE LESSONS USED IN THIS EXPERIMENT DID NOT ALONE SUFFICIENTLY ENHANCE THE SUBJECTS' ABILITY TO CONSERVE NUMEROUSNESS, BUT THAT THEY SHOULD PROVIDE AN EFFECTIVE SUPPLEMENT TO FORMAL ACTIVITY WITH NUMBER CONCEPTS. (AUTHOR/WY)

REPORT NUMBER: UW-WRDCCL-WP-44

CONTRACT NUMBER: OEC-5-10-154

BUREAU NUMBER: BR-5-0216

INSTITUTION NAME: WISCONSIN UNIV., MADISON. RESEARCH AND DEVELOPMENT CENTER FOR COGNITIVE LEARNING.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF

RESEARCH

ACCESSION NUMBERS: ED049478 CG006282

PUBLICATION DATE: 70

TITLE: STRAND IV: ENVIRONMENTAL AND COMMUNITY HEALTH. ENVIRONMENTAL AND PUBLIC HEALTH, GRADES 4-6. SPECIAL EDITION FOR EVALUATION AND DISCUSSION.

INSTITUTION CODE: BBB03217

DESCRIPTOR: CURRICULUM; *CURRICULUM DESIGN; CURRICULUM DEVELOPMENT; CURRICULUM PLANNING; ELEMENTARY EDUCATION; ELEMENTARY GRADES; *ELEMENTARY SCHOOL CURRICULUM; ELEMENTARY SCHOOL ROLE; ELEMENTARY SCHOOLS; *ELEMENTARY SCHOOL STUDENTS; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; HEALTH EDUCATION; *INSTRUCTIONAL MATERIALS

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 145P.

ISSUE: RIEAUG71

THIS PROTOTYPIC CURRICULUM IS DESIGNED TO DEVELOP AWARENESS OF THE CHALLENGES MAN FACES IN HIS CROWDED COMMUNITIES TO INSURE CLEAN WATER, PEST CONTROL, WASTE REMOVAL, SAFE FOOD HANDLING AND ADEQUATE COMMUNITY HEALTH FACILITIES. IT DISTINGUISHES BETWEEN THE PREVENTION OF FUTURE ENVIRONMENTAL ABUSE AND COMPENSATION FOR PAST ABUSES. BOTH THE GAINING OF FACTUAL KNOWLEDGE AND THE ELICITATION OF A PERSONAL COMMITMENT BY THE PUPIL FOR WORKING AGAINST ENVIRONMENTAL THREATS ARE AMONG THE PURPOSES OF THE CURRICULUM. THE FORMAT IS DIVIDED AS FOLLOWS: (1) MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS, (2) SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES, AND (3) SUPPLEMENTARY INFORMATION FOR TEACHERS. (AUTHOR/TL)

AVAILABILITY: NEW YORK STATE ERIC SERVICE, ROOM 468 EBA, STATE EDUCATION DEPARTMENT, ALBANY, NEW YORK 12224 (MICROFICHE AT NO COST TO EDUCATORS)

INSTITUTION NAME: NEW YORK STATE EDUCATION DEPT., ALBANY. BUREAU OF ELEMENTARY CURRICULUM DEVELOPMENT.

ACCESSION NUMBERS: ED049477 CG006281

PUBLICATION DATE: 71

TITLE: STRAND IV: ENVIRONMENTAL AND COMMUNITY HEALTH. ENVIRONMENTAL AND PUBLIC HEALTH, GRADES 10, 11, AND 12. SPECIAL EDITION FOR EVALUATION AND DISCUSSION.

INSTITUTION CODE: BBB00116

DESCRIPTOR: *CURRICULUM; CURRICULUM ENRICHMENT; CURRICULUM GUIDES; *ENVIRONMENTAL EDUCATION; HEALTH; *HEALTH EDUCATION; HIGH SCHOOL CURRICULUM; *INSTRUCTIONAL AIDS; INSTRUCTIONAL MATERIALS; RESOURCE GUIDES; *RESOURCE MATERIALS; TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 183P.

ISSUE: RIEAUG71

THIS PUBLICATION CONTAINS CURRICULUM SUGGESTIONS FOR TEACHING THE ENVIRONMENTAL AND PUBLIC HEALTH COMPONENT (GRADES 10, 11, AND 12) OF THIS PROTOTYPIC CURRICULUM SERIES. THE FORMAT CONSISTS OF FOUR COLUMNS INTENDED TO PROVIDE TEACHERS WITH: (1) A BASIC CONTENT OUTLINE, (2) A LIST OF MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS, (3) INFORMATION ABOUT RESOURCE MATERIALS, AND (4) TEACHING AIDS. SPECIFIC CURRICULUM CONTENTS INCLUDE: (1) RATIONALE FOR MAN TO IMPROVE HIS ENVIRONMENT, (2) PSYCHOLOGICAL ASPECTS OF HEALTH, (3) GERONTOLOGY AND GERIATRICS, AND (4) SOCIETAL HEALTH PROBLEMS. BECAUSE OF THE COMPREHENSIVE NATURE OF THE TOTAL CURRICULUM - HEALTH PROGRAM, USERS ARE ADVISED TO BECOME FAMILIAR WITH ALL STRANDS PRESENTLY IN PRINT. (TL)

AVAILABILITY: NEW YORK STATE ERIC SERVICE, ROOM 468 EBA, STATE DEPARTMENT OF EDUCATION, ALBANY, NEW YORK 12224. (MICROFICHE AT NO COST TO EDUCATORS)

INSTITUTION NAME: NEW YORK STATE EDUCATION DEPT., ALBANY. BUREAU OF SECONDARY CURRICULUM DEVELOPMENT.

ACCESSION NUMBERS: ED049174 SP004785

PUBLICATION DATE: 70

TITLE: SEMINAR ON THE TRAINING OF TEACHERS, BY THE INTERDISCIPLINARY SYSTEM, TO USE THIS SYSTEM IN SCHOOLS (BOUAKE, IVORY COAST, MARCH 24 - APRIL 4, 1970). FINAL REPORT.

INSTITUTION CODE: IBG98895

DESCRIPTOR: BILINGUAL EDUCATION; *CONFERENCE REPORTS; ENVIRONMENTAL EDUCATION; *INTERDISCIPLINARY APPROACH; LANGUAGE INSTRUCTION; PRESERVICE EDUCATION; *PRIMARY EDUCATION; *TEACHER EDUCATION

IDENTIFIER: CAMEROON; IVORY COAST; NIGER; TOGO

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 36P.

ISSUE: RIEJUL71

THIS DOCUMENT SUMMARIZES THE DISCUSSION AND RECOMMENDATION MADE AT A MEETING HELD TO CONSIDER WAYS AND MEANS OF PUTTING THE SYLLABUSES OF TEACHER TRAINING COLLEGES AND SUBSEQUENTLY THOSE OF PRIMARY SCHOOLS ON AN INTERDISCIPLINARY FOOTING. THE CONFERENCE WAS ATTENDED BY TEACHERS ON THE STAFF OF PRIMARY TEACHER TRAINING COLLEGES IN CAMEROON, THE IVORY COAST, NIGER, AND TOGO; BY STAFF OF THE FRENCH BILATERAL ASSISTANCE PROGRAM; AND BY A UNITED KINGDOM OBSERVER. THE REPORT IS DIVIDED INTO THREE PARTS. PART 1 DISCUSSES THE RATIONALE FOR AN INTERDISCIPLINARY SYSTEM; PART 2 RELATES THE INTERDISCIPLINARY SYSTEM TO LANGUAGE TEACHING IN A BILINGUAL SYSTEM; AND PART 3 DISCUSSES THE ROLE OF ENVIRONMENTAL STUDIES IN AN INTERDISCIPLINARY SYSTEM. (RT)

INSTITUTION NAME: UNITED NATIONS EDUCATIONAL, SCIENTIFIC, AND CULTURAL ORGANIZATION, PARIS (FRANCE).

ACCESSION NUMBERS: ED049105 SO000865

PUBLICATION DATE: JAN 71

TITLE: PROJECT CANADA WEST. INTERIM REPORT.

INSTITUTION CODE: BBB04700

DESCRIPTOR: *AUDIOVISUAL INSTRUCTION; CONCEPT TEACHING; *CURRICULUM DEVELOPMENT; CURRICULUM PLANNING; *ENVIRONMENTAL EDUCATION; INTERDISCIPLINARY APPROACH; *LEARNING THEORIES; MULTIMEDIA INSTRUCTION; PROJECTS; REPORTS; SOCIAL STUDIES; TEACHER PARTICIPATION; *URBANIZATION

IDENTIFIER: CANADA; *PROJECT CANADA WEST

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 39P.

ISSUE: RIEJUL71

THIS FIRST INTERIM REPORT OF PROJECT CANADA WEST, INITIATED IN APRIL, 1970, INCLUDES THREE PAPERS. "CURRICULUM DEVELOPMENT IN URBANIZATION," BY DR. R. H. SABEY, ACTING EXECUTIVE DIRECTOR, IS AN OVERVIEW OF THE PROJECT'S HISTORY, PURPOSE, AND THE 5 YEAR PLAN FOR PHASES OF RESEARCH DEVELOPMENT. (SEE SO 000 283 FOR COMPLETE ABSTRACT.) TWO OF THE PAPERS WERE DELIVERED AT A WORKSHOP FOR SUB-PROJECT LEADERS. "A CURRICULAR AND INSTRUCTIONAL DESIGN," BY DR. TED AOKI DISCUSSES CURRICULUM DEFINITION, LEARNING THEORIES, INTENDED LEARNING OUTCOMES, CONCEPT TEACHING, TEACHING STRATEGY, THE TEACHER-STUDENT RELATIONSHIP, MULTIMEDIA INSTRUCTION, AND OTHER FACTORS IN THE TEACHING-LEARNING PROCESS WITH AN APPENDED BIBLIOGRAPHY. DR. DONAL TRUSS'S "BUSY WORK OR VALUING-THE USE OF MEDIA IN CLASSROOMS" DEALS WITH AUDIOVISUAL INSTRUCTION AND EMPHASIZES USE OF TECHNOLOGICAL EQUIPMENT FOR TAPED MATERIALS AND FILMS. HE PRESENTS A SAMPLE FILM-MAKING SCENARIO. APPENDICES TO THE INTERIM REPORT INCLUDE THE CONSTITUTION OF PROJECT CANADA WEST AND LIST OF BOARD OF TRUSTEE PERSONNEL. ALSO GIVEN ARE THE TITLE, LOCATION, PERSONNEL, AND CONSULTANTS FOR EACH OF THE 14 SUB-PROJECT TEAMS. THE PROJECT INTENDS TO PUBLISH INTERIM REPORTS BI-ANNUALLY. SO 000 525 CONTAINS INFORMATION ON THE PROJECT NEWSLETTER. (JSB)

INSTITUTION NAME: WESTERN CURRICULUM PROJECT ON CANADA STUDIES, EDMONTON (ALBERTA).

ACCESSION NUMBERS: ED049074 SE011112

PROGRAM AREA: 24

PUBLICATION DATE: JAN 71

TITLE: A SUMMER TASK GROUP FOR EDUCATIONAL INNOVATION. FINAL REPORT.

PERSONAL AUTHOR: STEINHART, JOHN S.; DELAMATER, JOHN D.

INSTITUTION CODE: BBB04846

SPONSORING AGENCY CODE: RM066004

DESCRIPTOR: ANNOTATED BIBLIOGRAPHIES; ATTITUDES; *COLLEGE SCIENCE; CONFERENCE REPORTS; CURRICULUM PLANNING; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; INTERDISCIPLINARY APPROACH; PROGRAM DESCRIPTIONS; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 117P.

ISSUE: RIEJUL71

THE MAIN REPORT DESCRIBES THE PROCEDURES FOLLOWED, DIFFICULTIES ENCOUNTERED, AND RESULTS OBTAINED BY A FACULTY AND STUDENT SUMMER TASK FORCE ATTEMPTING TO DESIGN AND PRODUCE COURSE MATERIALS FOR AN INTRODUCTORY COLLEGE COURSE IN MAN-ENVIRONMENT RELATIONS, AND PLAN AN UNDERGRADUATE CURRICULUM IN ENVIRONMENTAL STUDIES. DATA ON CHANGES IN PARTICIPANTS ATTITUDES ARE PROVIDED: FEW CHANGES WERE NOTED. ADDITIONAL DOCUMENTS APPENDED CONTAIN AN ESSAY ON "EDUCATION AS ENVIRONMENT;" MATERIALS FOR AN INTRODUCTORY COURSE, INCLUDING INSTRUCTORS HANDBOOK, ANNOTATED BIBLIOGRAPHY, AND A CLASS SCHEDULE; A DRAFT PROPOSAL FOR A FOUR YEAR PROGRAM IN ENVIRONMENTAL STUDIES; A SAMPLE ATTITUDE QUESTIONNAIRE; AND TWO STATEMENTS, ONE BY A FRESHMAN AND THE OTHER BY A FACULTY MEMBER, EVALUATING THE SUMMER PROGRAM. NOT AVAILABLE IN HARDCOPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT. (AL)

GRANT NUMBER: OEG-0-70-4647(508)

BUREAU NUMBER: BR-0-0797

INSTITUTION NAME: WISCONSIN UNIV., MADISON. INST. FOR ENVIRONMENTAL STUDIES.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBERS: ED049032 SE010921

PUBLICATION DATE: 70

TITLE: PROBING THE NATURAL WORLD, VOLUME 3A, ENVIRONMENTAL SCIENCE, CRUSTY PROBLEMS, AND WHY YOU'RE YOU.

INSTITUTION CODE: BBB02957

SPONSORING AGENCY CODE: FGK57295; RMQ66000

DESCRIPTOR: *EARTH SCIENCE; *ENVIRONMENTAL EDUCATION; GENETICS; HEREDITY; *INSTRUCTIONAL MATERIALS; OVERPOPULATION; POLLUTION; *SCIENCE ACTIVITIES; *SECONDARY SCHOOL SCIENCE

IDENTIFIER: INTERMEDIATE SCIENCE CURRICULUM STUDY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 357P.

ISSUE: RIEJUL71

THIS VOLUME IS THE FIRST OF A THREE VOLUME, ONE YEAR PROGRAM FOR USE IN JUNIOR HIGH SCHOOL, AND CONSISTS OF THESE THREE UNITS: ENVIRONMENTAL SCIENCE, CRUSTY PROBLEMS (EARTH SCIENCE), AND WHY YOU'RE YOU (HEREDITY). THE ENVIRONMENTAL SCIENCE UNIT IS COMPOSED OF CHAPTERS RELATING TO THESE SUBJECTS: THE BLACK DEATH (PLAGUE); ENERGY, FOOD CHAIN, AND RELATED FACTORS; THREE CHAPTERS ON WATER POLLUTION; GARBAGE; AND TWO CHAPTERS ON OVERPOPULATION. THERE ARE 16 SUPPLEMENTARY "EXCURSION" ACTIVITIES FOR THIS UNIT. THE EARTH SCIENCE UNIT CONSISTS OF A CHAPTER ON THE CHANGING EARTH, THE MOUNTAINS, THE MIDLANDS, AND THE SHORELANDS. INCLUDED ARE 50 SUPPLEMENTARY "RESOURCE" READINGS AND ACTIVITIES FOR THE EARTH SCIENCE UNIT. THE HEREDITY UNIT CONSISTS OF SEVEN CHAPTERS INVOLVING ACTIVITIES WITH FRUIT FLYS, BEANS, PEAS, HEREDITARY DIFFERENCES IN PEOPLE, AND A MODEL INSECT DEMONSTRATING HOW GENETICS DETERMINE INDIVIDUAL CHARACTERISTICS. THERE ARE 15 "EXCURSION" ACTIVITIES WITH THIS UNIT WHICH PROVIDE MORE DEPTH OR INTERESTING MATERIALS RELATED TO THE CHAPTER. THE TEST IS ACTIVITY ORIENTED AND IS DESIGNED FOR INDEPENDENT STUDY AND SELF PACING BY THE STUDENT, MAKING IT POSSIBLE FOR THE TEACHER TO WORK INDIVIDUALLY WITH STUDENTS. THE WORK WAS DEVELOPED WITH SUPPORT FROM THE U.S. OFFICE OF EDUCATION AND PUBLISHED UNDER 'LIMITED' COPYRIGHT AUTHORIZATION PURSUANT TO THE PROCEDURES OF THE USOE COPYRIGHT GUIDELINES. (PR)

AVAILABILITY: INTERMEDIATE SCIENCE CURRICULUM STUDY, SILVER BURDETT COMPANY, MORRISTOWN, N.J. 07960 ($1.53)

INSTITUTION NAME: FLORIDA STATE UNIV., TALLAHASSEE, DEPT. OF SCIENCE EDUCATION.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.; OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

ACCESSION NUMBERS: ED049026 SE010658

PUBLICATION DATE: 70

TITLE: ENVIRONMENTAL EDUCATION OBJECTIVES AND FIELD ACTIVITIES, THIRD EDITION.

PERSONAL AUTHOR: MAJOR, JAMES M.; CISSELL, CHARLES A.

INSTITUTION CODE: LBY25467

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: CURRICULUM ENRICHMENT; *ENVIRONMENTAL EDUCATION; *FIELD INSTRUCTION; INTERDISCIPLINARY APPROACH; *LEARNING ACTIVITIES; *NATURAL RESOURCES; OBJECTIVES; OUTDOOR EDUCATION; *TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$9.87

DESCRIPTIVE NOTE: 272P.

ISSUE: RIEJUL71

CONTAINED IN THIS TEACHER'S GUIDE ARE EDUCATIONAL OBJECTIVES AND NUMEROUS FIELD ACTIVITY SUGGESTIONS FOR ENVIRONMENTAL EDUCATION. PART ONE DEALS WITH THE TOTAL ENVIRONMENTAL EDUCATION PROGRAM, PRIMARILY DEVELOPED FOR FIFTH GRADE STUDENTS, BUT ADAPTABLE TO ANY LEVEL, AGE SIX TO ADULT. SAMPLE OBJECTIVES OF AN ENVIRONMENTAL EDUCATION PROGRAM, GENERAL EDUCATIONAL OBJECTIVES, SCHOOL OBJECTIVES, AND SUBJECT AREAS OF STUDY OBJECTIVES ARE OUTLINED IN ADDITION TO A SUGGESTED INSTRUCTIONAL APPROACH AND PHILOSOPHY OF ENVIRONMENTAL EDUCATION. PART TWO DESCRIBES 86 FIELD ACTIVITIES DEVELOPED FOR ELEMENTARY STUDENTS USING THE YOUTH ACTIVITY STATION, LAND BETWEEN THE LAKES, KENTUCKY. THESE ARE IN THE AREAS OF LIFE SCIENCE, EARTH SCIENCE, ASTRONOMY, WEATHER, CONSERVATION, POLLUTION, SOCIAL SCIENCE, AND LANGUAGE ARTS. A BIBLIOGRAPHY, SAMPLE PROGRAM SCHEDULE, CHECKLISTS, AND SECTION ON WRITING BEHAVIORAL OBJECTIVES ARE ALSO INCLUDED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BL)

AVAILABILITY: PADUCAH PUBLIC SCHOOLS, 10TH AND CLARK STREETS, PADUCAH, KY. 42001 ($2.50)

INSTITUTION NAME: PADUCAH INDEPENDENT SCHOOL DISTRICT, KY.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED048923 PS004423

PROGRAM AREA: 24

PUBLICATION DATE: 4 FEB 71

TITLE: THE EFFICACY OF A MATHEMATICS READINESS PROGRAM FOR INDUCING CONSERVATION OF NUMBER, WEIGHT, AREA, MASS, AND VOLUME IN DISADVANTAGED PRESCHOOL CHILDREN IN THE SOUTHERN UNITED STATES.

PERSONAL AUTHOR: YOUNG, BEVERLY S.

INSTITUTION CODE: XPT84225

SPONSORING AGENCY CODE: BBB02778

DESCRIPTOR: COMPARATIVE ANALYSIS; *CONSERVATION (CONCEPT); CULTURALLY ADVANTAGED; CULTURALLY DISADVANTAGED; GROUPING (INSTRUCTIONAL PURPOSES); *LEARNING PROCESSES; LESSON PLANS; MATHEMATICS INSTRUCTION; *PRESCHOOL CHILDREN; READINESS (MENTAL); *RETENTION; *STUDENT TEACHERS; TESTING

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 9P.; PAPER PRESENTED AT THE ANNUAL MEETING OF THE AMERICAN EDUCATIONAL RESEARCH ASSOCIATION, NEW YORK, NEW YORK, FEBRUARY 4, 1971

ISSUE: RIEJUL71

THE PRESENT STUDY WAS DESIGNED TO DETERMINE WHETHER CONSERVATION OF NUMBER, WEIGHT, VOLUME, AREA, AND MASS COULD BE LEARNED AND RETAINED BY DISADVANTAGED PRESCHOOL CHILDREN WHEN TAUGHT BY AN INEXPERIENCED CLASSROOM TEACHER. AN INSTRUCTIONAL SEQUENCE OF 10-MINUTE LESSONS WAS PRESENTED ON ALTERNATE DAYS OVER A 3 1/2 WEEK PERIOD BY PRESERVICE ELEMENTARY EDUCATION MAJORS TO 93 CHILDREN 3-5 YEARS OF AGE. INSTRUCTIONS TO THE TEACHER CONSISTED OF TEN TYPED LESSON PLANS WHICH PERMITTED FLEXIBILITY IN WORDING AND PHRASING BUT WERE STRUCTURED IN TERMS OF SPECIFIC TASKS AND EXPERIENCES. CHILDREN IN THE EXPERIMENTAL GROUP WERE SUBDIVIDED INTO SMALLER, HOMOGENEOUS GROUPS OF 4-6 CHILDREN FOR TRAINING. A CONTROL GROUP WAS EXPOSED TO AN ENRICHED ENVIRONMENT BUT RECEIVED NO TRAINING. RESULTS SHOWED SIGNIFICANT GAINS FOR THE EXPERIMENTAL GROUP IN 15 OF THE 18 CRITERION SUBTESTS AND SIGNIFICANT INTERACTION BETWEEN CHRONOLOGICAL AGE (CA), MENTAL AGE (MA), AND INTELLIGENCE QUOTIENT (IQ) LEVELS. AN ANALYSIS FOR RETENTION SHOWED NO EXTINCTION. INSTRUCTION APPEARED TO BE EFFECTIVE FOR STUDENTS ABOVE THE 3-YEAR-OLD LEVEL IN MA AND CA, AND FOR IQ LEVELS ABOVE 65. WHEN DISADVANTAGED CHILDREN WERE COMPARED WITH ADVANTAGED CHILDREN OF THE SAME MA LEVEL, OR OF THE SAME IQ LEVEL, SIGNIFICANT DIFFERENCES APPEARED. (WY)

GRANT NUMBER: OEG-7-70-0160

BUREAU NUMBER: BR-0-G-043

INSTITUTION NAME: STEPHEN F. AUSTIN STATE UNIV., NACOGDOCHES, TEX.

SPONSORING AGENCY NAME: NATIONAL CENTER FOR EDUCATIONAL RESEARCH AND

DEVELOPMENT (DHEW/CE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED048493 VT012812

PUBLICATION DATE: 71

TITLE: A DESCRIPTION AND SOURCE LISTING OF CURRICULUM MATERIALS IN AGRICULTURAL EDUCATION, 1970-1971.

INSTITUTION CODE: BBB01335

DESCRIPTOR: *AGRICULTURAL EDUCATION; AGRICULTURAL ENGINEERING; AGRICULTURAL OCCUPATIONS; AGRONOMY; ANIMAL SCIENCE; *ANNOTATED BIBLIOGRAPHIES; DISEASES; FARM MANAGEMENT; FIELD CROPS; FORESTRY; HORTICULTURE; *INFORMATION SOURCES; *INSTRUCTIONAL MATERIALS; PESTICIDES; *RESOURCE MATERIALS; SOIL SCIENCE

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 34P.

ISSUE: RIEJUN71

TO PROVIDE TEACHERS OF VOCATIONAL AGRICULTURE, AGRICULTURAL SUPERVISORS, AND AGRICULTURAL TEACHER EDUCATORS WITH INFORMATION ON CURRENT CURRICULUM MATERIALS AVAILABLE TO THEM, THIS ANNOTATED BIBLIOGRAPHY PRESENTS 207 REFERENCES CLASSIFIED ACCORDING TO THE AGDEX FILING SYSTEM. TOPICS ARE: (1) FIELD CROPS, (2) HORTICULTURE, (3) FORESTRY, (4) ANIMAL SCIENCE, (5) SOILS, (6) DISEASES AND PESTS, (7) AGRICULTURAL ENGINEERING, (8) AGRICULTURAL ECONOMICS, (9) AGRICULTURAL OCCUPATIONS, AND (10) PROFESSIONAL. THE AVAILABILITY AND PRICE OF EACH REFERENCE ARE SPECIFIED IN THE ANNOTATION. MATERIALS COLLECTED DURING 1969-70 ARE AVAILABLE IN ED 038 507. (GB)

AVAILABILITY: VOCATIONAL AGRICULTURE SERVICE, 434 MUMFORD HALL, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS 61801

INSTITUTION NAME: AMERICAN VOCATIONAL ASSOCIATION, WASHINGTON, D.C. AGRICULTURAL EDUCATION DIVISION.

ACCESSION NUMBERS: ED048154 SP007026

PROGRAM AREA: 24

PUBLICATION DATE: OCT 68

TITLE: ACTIVITIES FOR BUILDING CONCEPTS OF LOGICAL THINKING. DEVELOPMENTAL SKILLS SERIES, BOOKLET III.

INSTITUTION CODE: OHH89988

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: CLASSIFICATION; *CONCEPT FORMATION; CONSERVATION (CONCEPT); *CURRICULUM GUIDES; *FUNDAMENTAL CONCEPTS; *KINDERGARTEN; *PRESCHOOL CURRICULUM; SERIAL ORDERING; SYMBOLIC LEARNING

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 150P.

ISSUE: RIEJUN71

GRADES OR AGES: FOUR-, FIVE-, AND SIX-YEAR OLDS. SUBJECT MATTER: COGNITIVE AREAS OF SYMBOLISM, CLASSIFICATION, CONSERVATION, SERIATION, SPATIAL RELATIONSHIP, AND TEMPORAL RELATIONSHIPS. ORGANIZATION AND PHYSICAL APPEARANCE: THE GUIDE IS DIVIDED INTO SIX SECTIONS, ONE FOR EACH OF THE ABOVE COGNITIVE AREAS. EACH SECTION LISTS MATERIALS AND DESCRIBES ACTIVITIES; ILLUSTRATIONS ARE INTERSPERSED. THE GUIDE IS MIMEOGRAPHED AND SPIRAL BOUND WITH A SOFT COVER. OBJECTIVES AND ACTIVITIES: A SHORT LIST OF GENERAL ACTIVITIES IS GIVEN FOR EACH COGNITIVE AREA, FOLLOWED BY DETAILED INSTRUCTIONS FOR NUMEROUS SPECIFIC ACTIVITIES--OVER 100 IN ALL. A CLASS INVENTORY LISTS ACTIVITIES A CHILD SHOULD BE ABLE TO DO AT DIFFERENT AGES. INSTRUCTIONAL MATERIALS: A LIST OF MATERIALS ACCOMPANIES EACH LIST OF GENERAL ACTIVITIES AND EACH DESCRIPTION OF A SPECIFIC ACTIVITY. STUDENT ASSESSMENT: NO PROVISION OTHER THAN THE CLASS INVENTORY IS MADE. OPTIONS: THE GUIDE IS SUGGESTIVE ONLY. IT MAKES NO MENTION OF TIMING OR MEANS OF INCORPORATING THE ACTIVITIES INTO A TOTAL PROGRAM. (RT)

CONTRACT NUMBER: OEC-3-7-061328-0322

BUREAU NUMBER: BR-6-1328

INSTITUTION NAME: UNIVERSITY CITY SCHOOL DISTRICT, MO.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBERS: ED048061 SO000682

PUBLICATION DATE: 70

TITLE: SOCIAL STUDIES - GRADE 6; (EASTERN EUROPE) A TEACHING SYSTEM.

INSTITUTION CODE: BBB03217

DESCRIPTOR: *AREA STUDIES; CITIZENSHIP; *COMMUNITY STUDY; CONCEPT TEACHING; *CROSS CULTURAL STUDIES; ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; GRADE 6; INDUCTIVE METHODS; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; MULTIMEDIA INSTRUCTION; PROBLEM SOLVING; RESOURCE GUIDES; *SOCIAL STUDIES UNITS; *TEACHING GUIDES

IDENTIFIER: *EASTERN EUROPE; SOVIET UNION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 74P.

ISSUE: RIEJUN71

THE OVERALL SOCIAL STUDIES RECOMMENDED PROGRAM IS DESCRIBED IN SO 000 675 AND SO 000 676; THE NATURE OF THIS GUIDE IS DESCRIBED IN SO 000 677. THE GEOGRAPHIC, HISTORICAL, SOCIAL, ECONOMIC, AND POLITICAL FACTORS IN EASTERN EUROPE, INCLUDING THE SOVIET UNION, ARE STUDIED IN THESE UNITS. (SBE)

INSTITUTION NAME: NEW YORK STATE EDUCATION DEPT., ALBANY. BUREAU OF ELEMENTARY CURRICULUM DEVELOPMENT.

ACCESSION NUMBERS: ED048059 SO000680

PUBLICATION DATE: 69

TITLE: SOCIAL STUDIES, GRADE 3. TEACHING SYSTEMS II.

INSTITUTION CODE: RBB03217

DESCRIPTOR: *AREA STUDIES; CITIZENSHIP; *COMMUNITY STUDY; CONCEPT TEACHING; *CROSS CULTURAL STUDIES; ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; GEOGRAPHY INSTRUCTION; GRADE 3; INDUCTIVE METHODS; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; MULTIMEDIA INSTRUCTION; PROBLEM SOLVING; RESOURCE GUIDES; *SOCIAL STUDIES UNITS; *TEACHING GUIDES

IDENTIFIER: *UNITED STATES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 78P.

ISSUE: RIEJUN71

THE OVERALL SOCIAL STUDIES RECOMMENDED PROGRAM IS DESCRIBED IN SO 000 675; THE NATURE OF THIS GUIDE, AND THE EMPHASIS AND ORGANIZATION OF THE UNITS ARE DESCRIBED IN SO 000 679. THE THREE UNITS IN THIS PART OF THE THIRD GRADE COURSE ARE: TROPICAL RAINFOREST, MOUNTAIN COMMUNITIES, AND GRASSLAND COMMUNITIES INVOLVING THE TYPICAL CLIMATIC CONDITIONS, LOCATION, AND ECONOMIC AND SOCIAL ORGANIZATION OF THESE COMMUNITIES IN THE UNITED STATES AND NEIGHBORING COUNTRIES. (SBE)

INSTITUTION NAME: NEW YORK STATE EDUCATION DEPT., ALBANY. BUREAU OF ELEMENTARY CURRICULUM DEVELOPMENT.

ACCESSION NUMBERS: ED048058 SO000679

PUBLICATION DATE: 69

TITLE: SOCIAL STUDIES GRADE 3: TEACHING SYSTEMS I.

INSTITUTION CODE: BBB03217

DESCRIPTOR: CONCEPT TEACHING; CRITICAL THINKING; CULTURAL ENVIRONMENT; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; GEOGRAPHY INSTRUCTION; GRADE 3; *INDUCTIVE METHODS; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; MULTIMEDIA INSTRUCTION; PHYSICAL ENVIRONMENT; PROBLEM SOLVING; *RESOURCE GUIDES; *SOCIAL STUDIES UNITS; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 63P.

ISSUE: RIEJUN71

THIS PUBLICATION HAS BEEN PREPARED BY THE CURRICULUM DEVELOPMENT CENTER (THE UNIVERSITY OF THE STATE OF NEW YORK) IN RESPONSE TO MANY REQUESTS FROM TEACHERS FOR HELP IN IMPLEMENTING THE NEW SOCIAL STUDIES. SUGGESTIONS ARE GIVEN FOR THE TEACHING MATERIALS WHICH ARE AVAILABLE FOR USE IN SUCH TEACHING. THE NATURE OF THE RELATIONSHIP BETWEEN MAN AND HIS PHYSICAL ENVIRONMENT WILL BE EXPLORED. THE DELICATE BALANCE BETWEEN MAN'S EFFECT ON HIS LAND AND THE LAND'S EFFECT ON HUMAN CULTURE REVEALS ITSELF AS THE CHILDREN EXPLORE LIFE IN SEVERAL GEOGRAPHIC COMMUNITIES. LOCATING AND ORGANIZING INFORMATION, INTERPRETING PICTURES, CHARTS, AND MAPS; OBSERVING, APPLYING PROBLEM-SOLVING TECHNIQUES AND CRITICAL THINKING TO HIS OWN LIFE; AND WORKING WITH OTHERS, ARE THE SKILLS IN WHICH THE THIRD GRADER WILL NEED INSTRUCTION AND THE MEANS BY WHICH HE WILL DISCOVER MAN'S INTERACTION WITH THE LAND. THE UNITS ARE ON TAIGA COMMUNITIES, GEOGRAPHY, AND DESERT COMMUNITIES. EACH UNIT INCLUDES A PROBLEM STATEMENT, UNDERSTANDINGS TO BE DEVELOPED, INFORMATION NEEDED, LEARNING ACTIVITIES, EVALUATION, AND TEACHING MATERIALS (MULTIMEDIA). (AUTHOR/SLD)

AVAILABILITY: NEW YORK STATE ERIC SERVICE, STATE EDUCATION DEPARTMENT, ROOM 468 EBA, ALBANY, NEW YORK 12224 (MICROFICHE ONLY, FREE)

INSTITUTION NAME: NEW YORK STATE EDUCATION DEPT., ALBANY. BUREAU OF ELEMENTARY CURRICULUM DEVELOPMENT.

ACCESSION NUMBERS: ED048057 SO000678

PUBLICATION DATE: 70

TITLE: SOCIAL STUDIES, GRADE 2. A TEACHING SYSTEM.

INSTITUTION CODE: BBB03217

DESCRIPTOR: AMERICAN CULTURE; *AREA STUDIES; *CITIZENSHIP; *COMMUNITY STUDY; CONCEPT TEACHING; ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; ETHNIC STUDIES; GRADE 2; INDUCTIVE METHODS; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; MULTIMEDIA INSTRUCTION; PROBLEM SOLVING; RESOURCE GUIDES; *SOCIAL STUDIES UNITS; *TEACHING GUIDES

IDENTIFIER: *UNITED STATES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 73P.

ISSUE: RIEJUN71

THE OVERALL SOCIAL STUDIES RECOMMENDED PROGRAM IS DESCRIBED IN SO 000 675; THE NATURE OF THIS GUIDE, AND THE EMPHASIS AND ORGANIZATION OF THE UNITS ARE DESCRIBED IN SO 000 677. SOME OF THE MAJOR CONCEPTS INCLUDED HERE ARE: (1) DEFINING OR LIMITING THE COMMUNITY TO BE STUDIED; (2) SOCIAL AND ETHNIC GROUPS IN THE COMMUNITY; (3) COMMUNITY ORGANIZATIONS AND SERVICE CLUBS; (4) INDUSTRY, PROFIT MOTIVE, AND LOCAL BUSINESS AND INDUSTRIES; (5) TRANSPORTATION AND COMMUNICATION; (6) TYPE OF LOCAL GOVERNMENT IN THE COUNTY, CITY, VILLAGE, TOWNSHIP, ETC.; (7) LOCAL SERVICE NEEDS, AND THE COSTS OF THESE SERVICES; (8) ROAD, SCHOOL, NEIGHBORHOOD, COMMUNITY, WORLD, MAPS; AND (9) THE HISTORY OF THE FLAG AND PLEDGE OF ALLEGIANCE. (SBE)

INSTITUTION NAME: NEW YORK STATE EDUCATION DEPT., ALBANY. BUREAU OF ELEMENTARY CURRICULUM DEVELOPMENT.

ACCESSION NUMBERS: ED048056 SO000677

PUBLICATION DATE: 70

TITLE: SOCIAL STUDIES, GRADE 1: A TEACHING SYSTEM.

INSTITUTION CODE: BBB03217

DESCRIPTOR: AMERICAN CULTURE; *AREA STUDIES; *CITIZENSHIP; *COMMUNITY STUDY; CONCEPT TEACHING; ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; GRADE 1; INDUCTIVE METHODS; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; MULTIMEDIA INSTRUCTION; NEIGHBORHOOD; PROBLEM SOLVING; RESOURCE GUIDES; *SOCIAL STUDIES UNITS; *TEACHING GUIDES

IDENTIFIER: *UNITED STATES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 67P.

ISSUE: RIEJUN71

THE OVERALL SOCIAL STUDIES RECOMMENDED PROGRAM IS DESCRIBED IN SO 000 675. HOWEVER, THIS GUIDE CONTAINS SUGGESTIONS FOR TEACHERS TO HELP THEM IN IMPLEMENTING THIS PROGRAM. THE LOCAL ENVIRONMENT STUDIES CONCENTRATE ON THE BUILDING OF EFFECTIVE CITIZENSHIP AS A MEMBER OF A HOME, SCHOOL, AND COMMUNITY GROUPS WITH RESPECT TO: SOCIAL ORGANIZATION, ECONOMIC ORGANIZATION, POLITICAL ORGANIZATION, GEOGRAPHY, AND PATRIOTISM. SOME OF THE MAJOR CONCEPTS INCLUDED ARE: FAMILY LIFE, SCHOOLS YESTERDAY AND TODAY, COMMUNITY CHARACTERISTICS, COMMUNITY SERVICES, FARMING, DIVISION OF LABOR, RULES AND LAWS, DEMOCRACY AND ELECTIONS OF THE PRESIDENT, NEIGHBORHOOD AND WORLD GEOGRAPHY, THE FLAG, AND NATIONAL HOLIDAYS AND FESTIVALS. THIS CONTENT IS SET FORTH ALONG WITH A SUGGESTED METHODOLOGY, AN EXTENSIVE LIST OF LEARNING ACTIVITIES FROM WHICH TEACHERS MAY CHOOSE THOSE BEST SUITED TO THEIR CLASSROOMS, AND A MULTIMEDIA BIBLIOGRAPHY OF TEACHING MATERIALS. (SBE)

INSTITUTION NAME: NEW YORK STATE EDUCATION DEPT., ALBANY. BUREAU OF ELEMENTARY CURRICULUM DEVELOPMENT.

ACCESSION NUMBERS: ED048055 SO000676

PUBLICATION DATE: 69

TITLE: SOCIAL STUDIES 4-6: A RECOMMENDED PROGRAM.

INSTITUTION CODE: BBB03217

DESCRIPTOR: *AREA STUDIES; CITIZENSHIP; *COMMUNITY STUDY; CONCEPT TEACHING; *CROSS CULTURAL STUDIES; DISCUSSION (TEACHING TECHNIQUE); ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; ETHNIC STUDIES; GEOGRAPHY INSTRUCTION; GRADE 4; GRADE 5; GRADE 6; INDUCTIVE METHODS; PROBLEM SOLVING; *SOCIAL STUDIES UNITS; *TEACHING GUIDES

IDENTIFIER: AFRICA; CANADA; EUROPE; LATIN AMERICA; MIDDLE EAST; SOVIET UNION; UNITED STATES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 125P.

ISSUE: RIEJUN71

THE OVERALL SOCIAL STUDIES RECOMMENDED PROGRAM IS DESCRIBED IN SO 000 675. HERE, THE GRADE 4 PROGRAM DEALS WITH THE VARIOUS RACIAL AND ETHNIC GROUPS AND THE FAMOUS PEOPLE WHO HAVE CONTRIBUTED TO THE GREATNESS OF OUR COUNTRY. THE TREATMENT IS DEVELOPED IN A CHRONOLOGICAL HISTORICAL SEQUENCE FROM THE EXPLORERS AND DISCOVERERS TO THE INDUSTRIALISTS, SCIENTISTS, AND THE ARTISTS. WITH THE GRADE 5 PROGRAM A TWO-YEAR PROGRAM DEALING WITH WORLD REGIONS BEGINS. IT IS SUGGESTED THAT THE UNITED STATES BE DEALT WITH FIRST, COVERING MAJOR CLIMATIC AND VEGETATIONAL REGIONS, AND STRESSING THE TOPOGRAPHY, LATITUDE, BODIES OF WATER, AND PREVAILING WINDS. EMPHASIS IS ALSO PLACED ON CITIZENSHIP, AND THE AMERICAN WAY OF LIFE COVERING ECONOMIC AND SOCIOLOGICAL PATTERNS. CANADA AND LATIN AMERICA ARE DEALT WITH IN MUCH THE SAME WAY, WITH THE ADDITION OF A SHORT SURVEY OF THE HISTORY OF EACH OF THESE REGIONS AVOIDING A COUNTRY BY COUNTRY APPROACH. THREE REGIONS ARE SUGGESTED FOR SEQUENTIAL STUDY DURING THE GRADE 5 PROGRAM: 1) THE MIDDLE EAST AND NORTH AFRICA; 2) WESTERN EUROPE; AND, 3) EASTERN EUROPE INCLUDING THE SOVIET UNION. THE CONCEPTS TAUGHT AND THE SKILLS TO BE DEVELOPED ARE THE SAME. HOWEVER, SPECIAL ATTENTION IS GIVEN TO AMERICAN FREEDOMS, CIVIL RIGHTS, THE ROLE OF THE UNITED STATES IN THE UNITED NATIONS, WORLD PROBLEMS, AND FOREIGN RELATIONS. (SBE)

AVAILABILITY: NEW YORK STATE ERIC SERVICE, STATE EDUCATION DEPARTMENT, ROOM 468 EBA, ALBANY, NEW YORK, 12224 (MICROFICHE ONLY, FREE)

INSTITUTION NAME: NEW YORK STATE EDUCATION DEPT., ALBANY. BUREAU OF ELEMENTARY CURRICULUM DEVELOPMENT.

ACCESSION NUMBERS: ED048054 SO000675

PUBLICATION DATE: 69

TITLE: SOCIAL STUDIES K-3: A RECOMMENDED PROGRAM.

INSTITUTION CODE: BBB03217

DESCRIPTOR: AMERICAN CULTURE; *AREA STUDIES; CITIZENSHIP; *COMMUNITY STUDY; CONCEPT TEACHING; *CROSS CULTURAL STUDIES; DISCUSSION (TEACHING TECHNIQUE); ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; GEOGRAPHY INSTRUCTION; GRADE 1; GRADE 2; GRADE 3; INDUCTIVE METHODS; KINDERGARTEN; PROBLEM SOLVING; *SOCIAL STUDIES UNITS; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 64P.

ISSUE: RIEJUN71

THE SOCIAL STUDIES PROGRAM SEEKS TO HIGHLIGHT AND INTERPRET BASIC IDEAS AND UNDERSTANDINGS DRAWN FROM ANTHROPOLOGY, ECONOMICS, GEOGRAPHY, HISTORY, POLITICAL SCIENCE, AND SOCIOLOGY AS TO THE ORGANIZATION OF COMMUNITIES. IT PLACES PARAMOUNT IMPORTANCE ON THE BUILDING OF ATTITUDES WHICH SUPPORT THE AMERICAN WAY OF LIFE, AND THE DEVELOPMENT OF PATRIOTISM BASED UPON A KNOWLEDGE AND APPRECIATION OF OUR HERITAGE. IT CONCENTRATES ON THE BUILDING OF EFFECTIVE CITIZENSHIP AS A MEMBER OF HOME, SCHOOL, AND COMMUNITY GROUPS. IT SEEKS TO BUILD A MAXIMUM LEVEL OF COMPETENCE IN SPECIALIZED READING SKILLS, THE EFFECTIVE USE OF REFERENCE MATERIALS, USING MAPS AND THE GLOBE, AND UNDERSTANDING AND USING GRAPHIC REPRESENTATION OF INFORMATION AND IDEAS. ATTAINMENT INVOLVES DEVELOPING THE COGNITIVE PROCESS AND SKILLS, AND THE AFFECTIVE DOMAIN. THIS GUIDE INCLUDES A SERIES OF QUESTIONS FOR CLASS DISCUSSION WHICH ARE INTENDED TO ENCOURAGE AN INDUCTIVE OR PROBLEM-SOLVING APPROACH. KINDERGARTEN AND GRADE 1 ARE DEVOTED TO LOCAL ENVIRONMENT STUDIES; GRADE 2 AND GRADE 3 CONCENTRATE ON LOCAL COMMUNITIES, THEN OTHER GEOGRAPHIC REGIONS OF THE UNITED STATES AND NEIGHBORING COUNTRIES: DESERT, NORTHERN FOREST, TROPICAL RAINFOREST, MOUNTAIN, AND PRARIES FARMING COMMUNITIES. SO 000 672 LISTS OTHER UNITS IN THE PROGRAM. (SBE)

AVAILABILITY: NEW YORK STATE ERIC SERVICE, STATE EDUCATION DEPARTMENT, ROOM 468 EBA, ALBANY, NEW YORK 12224 (MICROFICHE ONLY, FREE)

INSTITUTION NAME: NEW YORK STATE EDUCATION DEPT., ALBANY. BUREAU OF ELEMENTARY CURRICULUM DEVELOPMENT.

ACCESSION NUMBERS: ED048053 SO000667

PUBLICATION DATE: 31 JUL 70

TITLE: GEOGRAPHY: AN INTEGRATIVE DISCIPLINE: K-6. 1969-70 FINAL REPORT.

INSTITUTION CODE: BBB02091

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: COMMUNITY RESOURCES; CONCEPT TEACHING; *CURRICULUM DEVELOPMENT; CURRICULUM EVALUATION; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; FIELD EXPERIENCE PROGRAMS; FIELD STUDIES; GEOGRAPHIC CONCEPTS; *GEOGRAPHY INSTRUCTION; INDIVIDUALIZED INSTRUCTION; INQUIRY TRAINING; INSERVICE TEACHER EDUCATION; INSTRUCTIONAL MATERIALS; KINDERGARTEN; MULTIMEDIA INSTRUCTION; *PROJECTS; *SOCIAL STUDIES

IDENTIFIER: ESEA TITLE III; *SANTA MONICA GEOGRAPHY PROJECT

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 195P.

ISSUE: RIEJUN71

THE SANTA MONICA GEOGRAPHY PROJECT HAS BEEN UNDER DEVELOPMENT, FIELD STUDY, AND IMPLEMENTATION FROM 1963 TO 1970. THE PROGRAM IS DISCUSSED UNDER FOUR HEADINGS. 1) INSTRUCTIONAL TECHNIQUES: INCLUDED ARE FIELD EXPERIENCES, THE USE OF COMMUNITY RESOURCES, INQUIRY, AND MULTIMEDIA USE. 2) CURRICULUM: GEOGRAPHY WAS CHOSEN TO INTEGRATE THE CONCEPTS AND SKILLS OF THE SOCIAL SCIENCES, THE PHYSICAL SCIENCES LIKE GEOLOGY, ENVIRONMENTAL EDUCATION, AND COMPARATIVE STUDIES. THE CONCEPTS AND PROGRAM ELEMENTS ARE LISTED BY GRADE LEVEL IN APPENDIX C. 3) PROGRAM EVALUATION: THE NARRATIVE REPORT AND APPENDIX B DETAIL THE OBJECTIVES OF THE PROGRAM AND THE EXTENT TO WHICH THESE WERE MET. APENDIX A PRESENTS THE DISTRICT-PRODUCED TESTING INSTRUMENTS AND THE PRE- AND POST-TEST DATA. 4) MATERIALS: COUNTLESS MATERIALS WERE DEVELOPED OR PURCHASED FOR USE BY TEACHERS AND STUDENTS THAT WERE MOTIVATIONAL AND CONDUCIVE TO THE CONCEPT TEACHING SITUATION --STREAM TABLE, AERIAL PHOTOGRAPHS, FLOOR MAPS AND MODELS, TERRAIN MODELS, TRANSPARENCIES, FILMSTRIPS, AND REALIA. THESE ALL ARE LISTED IN APPENDIX D. 5) INSERVICE: THIS WAS AN ONGOING PROGRAM ON CONTENT, METHODS, MATERIALS, CONCEPTS AND TECHNIQUES USING CONSULTANTS AND INSTITUTES. (SBE)

REPORT NUMBER: OE-68-6290

GRANT NUMBER: OEG-19-740-14-6290-0

INSTITUTION NAME: SANTA MONICA UNIFIED SCHOOL DISTRICT, CALIF.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

ACCESSION NUMBERS: ED048051 SO000655

PUBLICATION DATE: 24 NOV 70

TITLE: PROCESS AND PROGRESS IN THE DEVELOPMENT OF POPULATION EDUCATION OVERSEAS.

PERSONAL AUTHOR: VIEDERMAN, STEPHEN

DESCRIPTOR: BIOLOGICAL SCIENCES; CITIZENSHIP; COMPARATIVE EDUCATION; CURRICULUM DEVELOPMENT; DEMOGRAPHY; *ENVIRONMENTAL EDUCATION; *FUNDAMENTAL CONCEPTS; INQUIRY TRAINING; INTERDISCIPLINARY APPROACH; *NATIONAL PROGRAMS; SOCIAL SCIENCES; *SOCIAL STUDIES; SPEECHES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 9P.; PAPER PRESENTED AT ANNUAL CONVENTION, NATIONAL COUNCIL FOR THE SOCIAL STUDIES, NEW YORK, NEW YORK, NOVEMBER, 1970

ISSUE: RIEJUN71

THE GOALS OF POPULATION EDUCATION ARE TO HELP CHILDREN UNDERSTAND, AND ACT IN ACCORDANCE WITH, THE IMPACT OF POPULATION CHARACTERISTICS ON AN INTERNATIONAL, NATIONAL, AND INDIVIDUAL PLANE. IT HAS BEEN ONLY WITHIN THE LAST TEN YEARS THAT COUNTRIES HAVE PAID SYSTEMATIC ATTENTION TO THE DEVELOPMENT OF EDUCATIONAL PROGRAMS. THE SPECIFIC FORM OF THESE PROGRAMS VARIES FROM COUNTRY TO COUNTRY, BUT THERE IS A CONSENSUS AMONG POPULATION EDUCATORS THAT THESE CONCEPTS SHOULD BE INFUSED IN ALL RELEVANT SUBJECT AREAS AND GRADE LEVELS--NOT CONSTITUTE A SPECIAL COURSE. SEVERAL COUNTRIES, SUCH AS KOREA, ARE WELL ALONG IN LAYING THE FOUNDATIONS FOR A SOUND PROGRAM, BUT CHILE IS THE FARTHEST ADVANCED IN ACTUALLY DEVELOPING A NATIONAL PROGRAM. THEY HAVE NOT ONLY DEVELOPED THE CONCEPTUAL SCHEME FOR INFUSING POPULATION EDUCATION INTO THE ELEMENTARY AND SECONDARY SOCIAL STUDIES CURRICULUM, BUT HAVE TRANSLATED THE SCHEME INTO INSTRUCTIONAL MATERIALS. THE PROGRAM IS INTERDISCIPLINARY, FLEXIBLE, AND STRESSES INQUIRY METHODS. THE CHILEAN MODEL IS INCOMPLETE, HOWEVER, IN THAT IT DOES NOT INCLUDE A DEVELOPMENT IN THE BIOLOGICAL SCIENCES COMPARABLE TO THAT IN THE SOCIAL SCIENCES, NOR IS THERE AN INSTITUTIONALIZED METHOD FOR INTRODUCING THESE CONCEPTS IN TEACHER TRAINING PROGRAMS. (JLB)

ACCESSION NUMBERS: ED048035 SO000584

PUBLICATION DATE: JUL 70

TITLE: FIRST GRADE SOCIAL STUDIES UNIT.

INSTITUTION CODE: JIM16280

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: AMERICAN INDIAN CULTURE; CHINESE AMERICANS; CHINESE CULTURE; CONCEPT TEACHING; *CROSS CULTURAL STUDIES; CULTURAL AWARENESS; ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; *ETHNIC STUDIES; FAMILY (SOCIOLOGICAL UNIT); *FAMILY LIFE; GEOGRAPHY INSTRUCTION; GRADE 1; INTERDISCIPLINARY APPROACH; MULTIMEDIA INSTRUCTION; RESOURCE GUIDES; SCIENCE ACTIVITIES; *SOCIAL STUDIES UNITS; *TEACHING GUIDES

IDENTIFIER: APPALACHIANS; *NAVAHOS

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 47P.

ISSUE: RIEJUN71

THE MAIN IDEA OF THIS UNIT--THAT MANY DIFFERENT KINDS OF FAMILIES LIVE IN THE UNITED STATES AND ARE ALIKE IN SOME WAYS BUT DIFFERENT IN OTHERS--IS SHAPED THROUGH AN EXAMINATION OF FAMILIES IN THREE CULTURAL AND PHYSICAL SETTINGS. THIS TEACHING GUIDE FOR THE UNIT PROVIDES HIGHLY DETAILED SUGGESTIONS FOR LEARNING EXPERIENCES AND MULTIMEDIA INSTRUCTIONAL MATERIALS, AS WELL AS BIBLIOGRAPHIC REFERENCES FOR THE TEACHER. THROUGH A DOMINANT USE OF CHILDREN'S STORIES AND HIGHLY VARIED LEARNING ACTIVITIES, THE LIFE STYLES OF A CHINESE-AMERICAN FAMILY IN A COASTAL ENVIRONMENT, AN APPALACHIAN FAMILY, AND A NAVAJO FAMILY LIVING ON THE DESERT ARE INVESTIGATED AND COMPARED. CORRELATED WITH THE SOCIAL STUDIES CONTENT ARE SUGGESTED SCIENCE ACTIVITIES FOCUSING ON THE PHYSICAL ENVIRONMENTS OF THESE THREE FAMILIES. A BIBLIOGRAPHY IS INCLUDED OF THE LEARNING MATERIALS CITED IN THE GUIDE. AN APPENDIX CONSISTS OF STORIES ABOUT THE THREE FAMILIES WHICH MAY BE ILLUSTRATED WITH ITEMS FROM A CURRICULUM KIT AVAILABLE FOR USE AS A PART OF THIS UNIT. RELATED DOCUMENTS ARE SO 000 585 THROUGH SO 000 591. (JLB)

INSTITUTION NAME: PARK FOREST PUBLIC SCHOOLS DISTRICT 163, ILL.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

ACCESSION NUMBERS: ED048026 SO000525

PUBLICATION DATE: DEC 70

TITLE: PROJECT CANADA WEST: KISTU'PEWIN. VOLUME 1, NUMBER 1.

INSTITUTION CODE: BBB04700

DESCRIPTOR: COMMUNITY STUDY; *CURRICULUM DEVELOPMENT; *ENVIRONMENTAL EDUCATION; INTERDISCIPLINARY APPROACH; *NEWSLETTERS; *PROJECTS; *SOCIAL STUDIES; URBAN AREAS; URBAN ENVIRONMENT; URBANIZATION

IDENTIFIER: CANADA; *PROJECT CANADA WEST

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 18P.

ISSUE: RIEJUN71

THIS NEWSLETTER IS INTENDED TO BE A BI-ANNUAL PUBLICATION WHICH WILL INFORM INTERESTED PERSONS ABOUT THE PROGRESS OF THIS PROJECT. IT IS CONCERNED WITH CURRICULUM STUDIES ON THE THEME OF CANADIAN URBANIZATION AND ITS EFFECTS ON OUR LIVES AND ENVIRONMENT. THE EMPHASIS IS ON BEHAVIORAL CHANGE; THE MATERIALS AND THE ACTIVITIES PRODUCED HAVE AS THEIR GOAL THE DEVELOPMENT OF TOLERANT ATTITUDES. A THIRD FEATURE IS THE EMPHASIS ON GRASSROOTS INVOLVEMENT. THE FOURTEEN SUB-PROJECTS SELECTED IN JUNE 1970 ARE DESCRIBED IN THIS ISSUE. THOSE INTERESTED IN RECEIVING THE NEWSLETTER REGULARLY SHOULD REQUEST THAT THEIR NAME BE PLACED ON THE MAILING LIST. (SBE)

AVAILABILITY: WESTERN CURRICULUM PROJECT ON CANADA STUDIES, BARNETT HOUSE, 11010 142ND STREET, EDMONTON, ALBERTA, CANADA

INSTITUTION NAME: WESTERN CURRICULUM PROJECT ON CANADA STUDIES, EDMONTON (ALBERTA).

ACCESSION NUMBERS: ED048021 SO000283

PUBLICATION DATE: AUG 70

TITLE: CURRICULUM DEVELOPMENT IN URBANIZATION.

PERSONAL AUTHOR: SABEY, R. H.

INSTITUTION CODE: BBB04753

DESCRIPTOR: COLLEGE SCHOOL COOPERATION; CONCEPTUAL SCHEMES; CONSORTIA; COOPERATIVE PLANNING; CURRICULUM DESIGN; CURRICULUM DEVELOPMENT; *ENVIRONMENTAL EDUCATION; INFORMATION UTILIZATION; *INTERDISCIPLINARY APPROACH; *PROJECTS; SOCIAL PROBLEMS; SOCIAL STUDIES; TEACHER PARTICIPATION; URBAN ENVIRONMENT; *URBANIZATION

IDENTIFIER: CANADA; *PROJECT CANADA WEST; WESTERN CURRICULUM PROJECT ON CANADA STUDIES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 13P.; PAPER PRESENTED AT A MEETING OF THE LAURENTIAN PROJECT, PETERBORO, ONTARIO, AUGUST 1970

ISSUE: RIEJUN71

THIS IS A BRIEF OVERVIEW OF PROJECT CANADA WEST, INITIATED IN APRIL 1970 TO DEVELOP RELEVANT CURRICULUM FOR CANADIAN EDUCATION. EVENTS AND ACTIVITIES LEADING TO THE FORMATION OF THE PROJECT ARE DISCUSSED, INCLUDING THE INFLUENCE OF THE PUBLICATION WHAT CULTURE? WHAT HERITAGE? BY A. B. HODGETTS. PROBLEMS IN THE ORGANIZATION OF KNOWLEDGE FOR THE SELECTION OF THEME, CONCEPTS, AND INFORMATION UTILIZATION ARE EMPHASIZED IN THE PLANNING STAGES. THE SELECTED MODEL FOR CURRICULUM AND INSTRUCTIONAL TECHNIQUE IS BY DR. TED AOKI, BASED ON THE WORK OF M. JOHNSON. URBANIZATION IN THE CANADIAN ENVIRONMENT IS THE AREA OF STUDY CHOSEN FOR CURRICULUM DEVELOPMENT. STAGES OF THE PROJECT ARE STATED BY THE AUTHOR: YEAR (1) A DEVELOPMENTAL PHASE. EACH PROJECT WILL ARRIVE AT A CLEAR CONCEPTUAL BASE UPON WHICH TO BUILD A PROJECT. YEAR (2) PRODUCTION OF CURRICULUM MATERIAL. YEAR (3) PILOT CLASSES IN SELECTED SCHOOL. YEAR (4) IN-SERVICE EDUCATION RELATED TO THE CURRICULAR MATERIAL IN ALL WESTERN PROVINCES. YEAR (5) EVALUATION. EDUCATOR TEAMS FROM MANITOBA, SASKATCHEWAN, ALBERTA, AND BRITISH COLUMBIA ARE DEVELOPING SPECIFIC PROPOSALS FOR RESEARCH IN CANADIAN URBAN STUDIES. SO 000 865 AND SO 000 525 ARE RELATED DOCUMENTS. (AUTHOR/JSB)

INSTITUTION NAME: BRITISH COLUMBIA TEACHER'S FEDERATION, VANCOUVER.

ACCESSION NUMBERS: ED048003 SE010932

PUBLICATION DATE: FEB 71

TITLE: BIOLOGICAL SCIENCES CURRICULUM STUDY NEWSLETTER NUMBER 42, THE IMPACT OF BSCS BIOLOGY ON COLLEGE CURRICULA.

PERSONAL AUTHOR: CLARK, GEORGE M.

INSTITUTION CODE: DUN06181

DESCRIPTOR: *ACHIEVEMENT; *BIOLOGY; COLLEGE SCIENCE; *CURRICULUM; ENVIRONMENTAL EDUCATION; *EVALUATION; INTERNATIONAL EDUCATION; NEWSLETTERS; SECONDARY SCHOOL SCIENCE

IDENTIFIER: BIOLOGICAL SCIENCES CURRICULUM STUDY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 24P.

ISSUE: RIEJUN71

TWO ARTICLES DESCRIBE THE IMPACT OF BSCS BIOLOGY ON COLLEGE BIOLOGY CURRICULA, ONE A GENERAL REVIEW AND THE OTHER A SPECIFIC EXAMPLE. BSCS HAS AFFECTED COLLEGE BIOLOGY TEACHING TO AN EXTENT RANGING FROM A DECISION NOT TO CHANGE THE EXISTING COURSES TO EXTENSIVE CURRICULA REVISIONS EXEMPLIFIED BY THE WEST VIRGINIA UNIVERSITY. OTHER ARTICLES DESCRIBE A LABORATORY TEST USED WITH THE ISRAELI ADAPTATION OF THE BSCS MATERIALS AND SUMMARIZE THE RESULTS OF A STUDY OF COLLEGE STUDENTS ENTERING THEIR FIRST BIOLOGY CLASS. THE PERFORMANCE ON A BSCS COMPREHENSIVE FINAL EXAMINATION WAS RELATED TO HIGH SCHOOL BACKGROUND. THE RESULTS INDICATE THAT INQUIRY QUESTIONS WERE ANSWERED EQUALLY WELL BY STUDENTS WITH OR WITHOUT HIGH SCHOOL BIOLOGY; AMONG THOSE WHO HAD A BIOLOGY COURSE IN HIGH SCHOOL, BSCS STUDENTS PERFORMED BETTER ON INQUIRY AND RECALL QUESTIONS. (AL)

AVAILABILITY: THE BIOLOGICAL SCIENCES CURRICULUM STUDY, P.O. BOX 930, BOULDER, COLO. 80302 (FREE)

INSTITUTION NAME: BIOLOGICAL SCIENCES CURRICULUM STUDY, BOULDER, COLO.

ACCESSION NUMBERS: ED047986 SE010865

PUBLICATION DATE: 70

TITLE: APPROACHING THE BENIGN ENVIRONMENT, THE FRANKLIN LECTURES IN THE SCIENCES & HUMANITIES, FIRST SERIES.

PERSONAL AUTHOR: FULLER, R. BUCKMINSTER; AND OTHERS

INSTITUTION CODE: AHP04875

SPONSORING AGENCY CODE: BBB04746

DESCRIPTOR: *ENVIRONMENT; ENVIRONMENTAL EDUCATION; ENVIRONMENTAL INFLUENCES; HUMANISM; RESOURCE MATERIALS; *SOCIAL FACTORS; *SPECIALIZATION; *TECHNOLOGICAL ADVANCEMENT; *TECHNOLOGY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 128P.

ISSUE: RIEJUN71

THREE EMINENT SCIENTISTS WONDER WHETHER MAN CAN RETAIN HIS HUMANITY AND IDEALS--WHAT LITTLE MAY BE LEFT OF THEM--IN THE FACE OF RAPID AND RADICAL CHANGES BEING FOSTERED AND PERHAPS IMPOSED BY SCIENCE AND ITS TECHNICAL APPLICATIONS AND MISAPPLICATIONS. FULLER'S LECTURE, COMPRISING THE BULK OF THE VOLUME, IS A MULTIDISCIPLINARY AND PROVOCATIVE WARNING AGAINST MAN'S TENDENCY TO OVERSPECIALIZE HIS SPECIES. THE THREE LECTURES POINT TO THE MANY THINGS THAT COULD BE DONE, AND DONE NOW, TO IMPROVE THE QUALITY OF LIFE ON THIS PLANET, IF NATIONAL AND WORLD PRIORITIES WERE REORIENTED TOWARD THE CREATION OF A MORE BENIGN ENVIRONMENT. THEY EMPHASIZE THAT THE ALTERNATIVES FACING MAN FOR THE FUTURE ARE A BENIGN ENVIRONMENT OR NO ENVIRONMENT AT ALL. (EDITOR/PR)

AVAILABILITY: UNIVERSITY OF ALABAMA PRESS, UNIVERSITY, ALABAMA 35486 ($6.00)

INSTITUTION NAME: AUBURN UNIV., ALA.

SPONSORING AGENCY NAME: JOHN AND MARY FRANKLIN FOUNDATION, ATLANTA, GA.

ACCESSION NUMBERS: ED047951 SE010754

PUBLICATION DATE: 28 APR 70

TITLE: MAN AND HIS HOME; THE 1970 B. Y. MORRISON MEMORIAL LECTURE.

PERSONAL AUTHOR: HAAGEN-SMIT, ARIE JAN

INSTITUTION CODE: FGK00271

DESCRIPTOR: *AIR POLLUTION CONTROL; CONSERVATION EDUCATION; ECOLOGY; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; NATURAL RESOURCES; OVERPOPULATION; *POLLUTION; RESOURCE MATERIALS

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 25P.; LECTURE PRESENTED AT THE ANNUAL MEETING OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS (WILLIAMSBURG, VIRGINIA, APRIL 28, 1970)

ISSUE: RIEJUN71

THIS ARTICLE IS A GENERAL REVIEW OF THE IMPACT OF MAN ON THE ENVIRONMENT. THE WRITING STYLE IS DESCRIPTIVE AND NONTECHNICAL, AND NUMEROUS EXAMPLES ARE PRESENTED IN REVIEWING THESE TOPICS: ECOLOGY, THEN CAME MAN, THE COUNTRY'S AIR, EFFECTS OF AIR POLLUTION, WHAT IS BEING DONE, AND PREVENTIVE CONSERVATION. (PR)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (GPO-404-746)

INSTITUTION NAME: AGRICULTURAL RESEARCH SERVICE (DOA), WASHINGTON, D.C.

ACCESSION NUMBERS: ED047939 SE009811

PUBLICATION DATE: 70

TITLE: GIVE EARTH A CHANCE SERIES, DIRTY AIR, TRASH IS TAKING OVER, SOUNDS AND SILENCE, PESTICIDES ARE PERILOUS, TRAGEDY IN THE LAUNDROMAT, TROUBLESOME TAIL PIPES.

INSTITUTION CODE: NS035791

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: AIR POLLUTION CONTROL; COMMUNITY PROBLEMS; *ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENT; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *POLLUTION; SCIENCE ACTIVITIES; WATER POLLUTION CONTROL

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 136P.

ISSUE: RIEJUN71

THESE SIX BOOKLETS IN THE "GIVE EARTH A CHANCE SERIES" ARE TITLED, "DIRTY AIR," "TRASH IS TAKING OVER," "SOUNDS AND SILENCE," "PESTICIDES ARE PERILOUS," "TRAGEDY IN THE LAUNDROMAT," AND "TROUBLESOME TAIL PIPES." THE BOOKLETS ARE SUITABLE FOR ELEMENTARY USE, AND ARE INTENDED TO STIMULATE DISCUSSION AND ACTIVITIES RELATED TO VARIOUS FORMS OF POLLUTION. EACH BOOKLET BEGINS WITH A STORY IN WHICH THE MAIN CHARACTERS ENCOUNTER A POLLUTION PROBLEM; AN INVESTIGATION OR STUDY TO EVALUATE A PROBLEM IN THE COMMUNITY FOLLOWS. THE STORIES INVOLVE THE CHARACTERS IN ACTUAL FIELD WORK, COLLECTING AND ANALYZING DATA IN SUCH STUDIES AS AIR POLLUTION MEASUREMENT, DETERGENT STUDIES, TRASH MEASUREMENT, ETC. THE STORIES SERVE AS A MODEL FOR ACTUAL CLASS ACTIVITIES, AND MANY QUESTIONS AND PROBLEMS ARE LEFT UNEXPLORED, BUT ARE PRESENTED TO STIMULATE FURTHER INVESTIGATION. MANY SUGGESTIONS ARE MADE FOR STUDENT ACTIVITIES. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (PR)

AVAILABILITY: ESC DISTRIBUTING CO., P.O. BOX 27144, GOLDEN VALLEY, MINN. 55427 (SINGLE COPY $0.75, SET $4.00)

INSTITUTION NAME: MINNEAPOLIS INDEPENDENT SCHOOL DISTRICT 275, MINN.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED047938 SE009775

PUBLICATION DATE: 68

TITLE: A SELECTED LIST OF FILMSTRIPS ON THE CONSERVATION OF NATURAL RESOURCES, NUMBER 5.

PERSONAL AUTHOR: ADAMS, JEAN LARSON; MICHAUD, HOWARD H.

INSTITUTION CODE: QWL19100

SPONSORING AGENCY CODE: FGK19105

DESCRIPTOR: *CONSERVATION EDUCATION; *ENVIRONMENTAL EDUCATION; *FILMSTRIPS; FORESTRY; *INSTRUCTIONAL MATERIALS; *NATURAL RESOURCES; RESOURCE MATERIALS; SOIL CONSERVATION; WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 45P.

ISSUE: RIEJUN71

THIS PAMPHLET DESCRIBES 115 CONSERVATION FILMSTRIPS AS TO CONTENT, SOURCES, SUGGESTED GRADE LEVEL(S), CURRICULUM AREA(S), AND NOTES OF INTEREST TO THE USER. THE FILMSTRIPS ARE DIVIDED INTO THE FOLLOWING AREAS: (1) GENERAL CONSERVATION, (2) ECOLOGY AND RESOURCE INTERRELATIONSHIPS, (3) FOREST TREES AND OTHER PLANTS, (4) FOREST CONSERVATION, (5) MINERALS, (6) SOIL AND LAND, (7) SOIL AND WATER CONSERVATION, (8) WATER, (9) WATER CONSERVATION. INCLUDED ARE NAMES AND ADDRESSES OF FILMSTRIP PRODUCERS IN THE UNITED STATES. (BB)

AVAILABILITY: THE INTERSTATE PRINTERS & PUBLISHERS, INC., 19-27 NORTH JACKSON ST., DANVILLE, ILL. 61832 (REORDER NO. 1040)

INSTITUTION NAME: CONSERVATION EDUCATION ASSOCIATION, BILLINGS, MONT.

SPONSORING AGENCY NAME: CONSERVATION FOUNDATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED047834 RC005037

PUBLICATION DATE: 71

TITLE: ENVIRONMENTAL AWARENESS; AN ACTION APPROACH.

PERSONAL AUTHOR: WIGHT, EDGAR L.: AND OTHERS

INSTITUTION CODE: FGK08380

DESCRIPTOR: *AMERICAN INDIANS; CONSERVATION EDUCATION; *CURRICULUM; *ECOLOGY; EDUCATION; *ENVIRONMENTAL EDUCATION; NATURAL RESOURCES; *PROGRAM DEVELOPMENT; SCIENCES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 53P.

ISSUE: RIEJUN71

IN THE CHANGING WORLD OF TODAY, MAN HAS CREATED ALARMING IMBALANCES OF NATURE WHICH THREATEN ALL LIVING CREATURES OF THE EARTH. THE PUBLIC IS BECOMING AWARE THAT SEVERE MEASURES MUST BE TAKEN TO CORRECT THESE IMBALANCES. INDIAN PEOPLE ARE CLOSELY ATTUNED TO THEIR LANDS AND RESOURCES--IT IS PART OF THEIR TRADITIONAL CULTURE TO HAVE CLOSE TIES WITH AND APPRECIATION FOR THE SOIL, TREES AND PLANTS, WATER, WILDLIFE, CLEAN AIR, MOUNTAINS, THE SEA, AND ALL THE BEAUTIES OF NATURE. WITH THIS KIND OF APPRECIATION, TEACHERS OF INDIAN CHILDREN CAN READILY IMPLEMENT ACTIVITIES RELATED TO ENVIRONMENTAL IMPROVEMENT. THIS BOOKLET WAS DESIGNED TO HELP TEACHERS AND STUDENTS IN LEARNING OF THE RELATIONSHIP OF THE ENVIRONMENT TO THE HUMAN RACE. DIVIDED INTO 5 MAJOR SECTIONS OF ACTIVITIES, EACH ACTIVITY IS CLASSIFIED ACCORDING TO THE LEVEL FOR WHICH IT IS BEST SUITED. SYMBOLS SUCH AS PRI FOR PRIMARY, INT FOR INTERMEDIATE, AND JH FOR JUNIOR HIGH DESIGNATE THE LEVEL. INCLUDED ARE ILLUSTRATIONS OF SIMPLE EXPERIMENTS THAT CAN BE CONDUCTED IN THE AREAS OF SOIL AND WATER; PLANT LIFE; WEATHER AND AIR; FISH, WILDLIFE, AND MICROSCOPIC LIFE; AND FORESTS, RANGELAND, AND WATERSHEDS. (EJ)

REPORT NUMBER: CURR-BULL-NO-9

INSTITUTION NAME: BUREAU OF INDIAN AFFAIRS (DEPT. OF INTERIOR), WASHINGTON, D.C.

ACCESSION NUMBERS: ED046790 SE010813

PROGRAM AREA: 24

PUBLICATION DATE: 15 OCT 70

TITLE: A MODEL FOR IMPROVING BIOLOGICAL EDUCATION IN THE 70'S, AN EXPERIMENTAL INSTRUCTIONAL MODULE DEALING WITH THE ENVIRONMENT OF MAN. FINAL REPORT.

PERSONAL AUTHOR: MAYER, WILLIAM V.

INSTITUTION CODE: DUN06181

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: *BIOLOGY; *CURRICULUM; CURRICULUM DEVELOPMENT; *ENVIRONMENTAL EDUCATION; EVALUATION; *INTERDISCIPLINARY APPROACH; PROGRAM DESCRIPTIONS; *SECONDARY SCHOOL SCIENCE; SOCIAL SCIENCES

IDENTIFIER: BIOLOGICAL SCIENCES CURRICULUM STUDY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 50P.

ISSUE: RIEMAY71

THE HISTORY OF A BIOLOGICAL SCIENCES CURRICULUM STUDY PROJECT WHICH DEVELOPED PROCEDURES FOR PRODUCING INSTRUCTIONAL MODULES IS OUTLINED, THE 33 CRITICAL STEPS IN THE DEVELOPMENTAL SEQUENCE ARE SHOWN DIAGRAMMATICALLY, AND SOME STEPS ARE DESCRIBED IN THE TEXT. THE RELATIONSHIP OF THESE TASKS TO THE THEORETICAL CURRICULUM DEVELOPMENT LITERATURE IS SHOWN, AND THEIR APPLICATION TO THE PREPARATION OF A PILOT MODULE, THE ENVIRONMENT OF MAN, IN A SEQUENCE OF UNITS WITH THE THEME: MAN AS A BIOLOGICAL AND SOCIAL ORGANISM LIVING IN A FINITE ENVIRONMENT, IS DESCRIBED. THE GENERAL OBJECTIVES OF THE SERIES INTENDED FOR GENERAL HIGH SCHOOL STUDENTS AND A SYNOPSIS OF THE INTENDED CONTENTS OF THE OTHER SEVEN MODULES ARE PROVIDED, TOGETHER WITH A DETAILED SPECIFICATION OF THE OBJECTIVES SPECIFIC TO THE PILOT MODULE. A DESCRIPTION OF THE STUDENT AND TEACHER MATERIALS IN THE PILOT MODULE IS GIVEN, AND A MODEL FOR FIELD TESTING THE MATERIALS FOR A FORMATIVE EVALUATION DESCRIBED, ALTHOUGH THIS WAS NOT COMPLETED WHEN THE REPORT WAS PREPARED. TWO ATTACHMENTS, TEACHERS INSTRUCTIONAL HANDBOOK FOR "INVESTIGATING YOUR ENVIRONMENT" AND STUDENT RESPONSE BOOK FOR "INVESTIGATING YOUR ENVIRONMENT," REFERRED TO IN THE TEXT WERE NOT INCLUDED IN THIS COLLECTION. (AL)

GRANT NUMBER: OEG-8-9-150087-4007(010)

BUREAU NUMBER: BR-9-0087

INSTITUTION NAME: BIOLOGICAL SCIENCES CURRICULUM STUDY, BOULDER, COLO.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBERS: ED046746 SE010651

PUBLICATION DATE: 70

TITLE: POLLUTION: PROBLEMS, PROJECTS & MATHEMATICAL EXERCISES, GRADES 6-9.

PERSONAL AUTHOR: HENDERSON, GEORGE L.; AND OTHERS

INSTITUTION CODE: BBB01041

SPONSORING AGENCY CODE: BBB04607; ZQU97875

DESCRIPTOR: *ECOLOGY; *ENVIRONMENTAL EDUCATION; INSTRUCTION; *MATHEMATICAL APPLICATIONS; POLLUTION; *PRACTICAL MATHEMATICS; *PROBLEM SETS; *SECONDARY SCHOOL MATHEMATICS

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 88P.

ISSUE: RIEMAY71

THIS SOURCEBOOK CONTAINS MATHEMATICAL EXERCISES, PROBLEMS, AND PROJECTS CONCERNING POLLUTION WHICH ARE ACCESSIBLE FOR STUDENTS IN GRADES 6-9. THE EXERCISES, WHICH ARE DESIGNED TO IMPROVE COMPUTATIONAL SKILLS, ARE CLASSIFIED ACCORDING TO TOPICS USUALLY TAUGHT IN THE MATHEMATICAL CURRICULUM OF THE MIDDLE SCHOOL. (CT)

INSTITUTION NAME: WISCONSIN STATE DEPT. OF PUBLIC INSTRUCTION, MADISON. DIV. OF INSTRUCTIONAL SERVICES.

SPONSORING AGENCY NAME: WISCONSIN MATHEMATICS COUNCIL, MADISON.; WISCONSIN STATE DEPT. OF PUBLIC INSTRUCTION, MADISON.

ACCESSION NUMBERS: ED046739 SE010599

PUBLICATION DATE: 70

TITLE: MINIATURE ENVIRONMENTS, AN ENVIRONMENTAL EDUCATION GUIDEBOOK.

INSTITUTION CODE: BBB00413

DESCRIPTOR: *CONSTRUCTION (PROCESS); CURRICULUM DEVELOPMENT; ECOLOGY; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; NATURAL SCIENCES; *SCIENCE PROJECTS; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 24P.

ISSUE: RIEMAY71

FOR THE PURPOSES OF BRINGING THE PROCESSES OF NATURE INTO THE CLASSROOM SO STUDENTS CAN HAVE DIRECT, PERSONAL CONTACT WITH THEM, THIS BOOKLET PRESENTS EXAMPLES OF TEACHING TOOLS USEFUL IN A GENERAL APPROACH TO ENVIRONMENTAL EDUCATION. IT DOES NOT DEAL WITH WHAT SHOULD BE TAUGHT ABOUT MAN AND HIS ENVIRONMENT, NOR DOES IT SUGGEST HOW TEACHERS SHOULD TEACH. ITS PURPOSE IS TO DESCRIBE WAYS TO BUILD MINIATURE ENVIRONMENTS FOR LIVING THINGS, USING LOW COST MATERIALS AND EQUIPMENT. THROUGH CONSTRUCTION OF AQUARIA AND TERRARIA THE MINIATURE ENVIRONMENTS FOR THE LIVING WORLDS OF LAND AND WATER ARE DEVELOPED. WELL DETAILED AS TO THE BACKGROUND, CONSTRUCTION, CONTENT, AND USE OF SUCH ENCLOSED ENVIRONMENTS, THE BOOKLET CONTINUOUSLY EMPHASIZES THE BASIC ELEMENTS AND PROCESSES OF NATURE WHICH ARE VITAL TO ALL ECOSYSTEMS. (BL)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (GPO-902-015)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. BUREAU OF OUTDOOR RECREATION.

ACCESSION NUMBERS: ED046737 SE010521

PUBLICATION DATE: AUG 70

TITLE: THE SEA AND MODERN MAN.

PERSONAL AUTHOR: CHAPMAN, FRANK L.

INSTITUTION CODE: QXM12435

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: CURRICULUM GUIDES; ECOLOGY; *ELEMENTARY SCHOOL SCIENCE; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *OCEANOLOGY; READING MATERIALS; *TEXTBOOKS

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 25P.

ISSUE: RIEMAY71

THIS PUBLICATION IS DESIGNED FOR USE AS PART OF A CURRICULUM SERIES DEVELOPED BY THE REGIONAL MARINE SCIENCE PROJECT. AS AN INFORMATIVE TEXT FOR A THREE-WEEK UNIT IN MARINE SCIENCE FOR GRADE SIX, IT CONSIDERS MAN'S ROLE IN USING COASTAL RESOURCES AND HOW HE AFFECTS THE MARINE ENVIRONMENTS. AN ECOLOGICAL APPROACH TO NATURE IS EMPHASIZED, STRESSING THE TIES BETWEEN CULTURE, ECONOMY, AND RESOURCE USE. TOPICS ARE DIVIDED INTO THREE UNITS: FOOD AND RECREATION, TRANSPORTATION, AND MINERALS AND CONSERVATION. EACH UNIT INCLUDES A VOCABULARY, FILL-IN QUESTIONS, AND DISUCSSION TOPICS. NUMEROUS DIAGRAMS ILLUSTRATE TOPICS DISCUSSED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BL)

AVAILABILITY: REGIONAL MARINE SCIENCE PROJECT, CARTERET COUNTY PUBLIC SCHOOLS, BEAUFORT, N.C. 28516 (FREE)

INSTITUTION NAME: CARTERET COUNTY PUBLIC SCHOOLS, BEAUFORT, N.C.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED046735 SE010519

PUBLICATION DATE: 70

TITLE: THE SEA AND ITS BOUNDARIES.

PERSONAL AUTHOR: CHAPMAN, FRANK L.

INSTITUTION CODE: QXM12435

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: CURRICULUM GUIDES; EARTH SCIENCE; *ECOLOGY; *ELEMENTARY SCHOOL SCIENCE; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *OCEANOLOGY; *TEXTBOOKS

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 31P.

ISSUE: RIEMAY71

THIS PUBLICATION IS DESIGNED FOR USE AS PART OF A CURRICULUM SERIES DEVELOPED BY THE REGIONAL MARINE SCIENCE PROJECT. AS AN INFORMATIVE TEXT FOR A THREE-WEEK UNIT IN MARINE SCIENCE FOR GRADE EIGHT, IT PRESENTS A STUDY OF COASTAL PROCESSES AND OCEANOGRAPHY. AN ECOLOGICAL APPROACH TO NATURE IS EMPHASIZED, STRESSING THE TIES BETWEEN CULTURE, ECONOMY, AND RESOURCE USE. TOPICS ARE DIVIDED INTO THREE UNITS: PHYSICAL OCEANOLOGY COVERS TIDES; THE SEA AT ITS BOUNDARY DISCUSSES WAVES, BEACHES, AND MAN'S CONTROL OF THE BEACH ENVIRONMENT; AND BEYOND THE LAND DESCRIBES THE OFF-COAST PROFILE, ELEMENTS IN THE WATER, WINDS, CURRENTS, AND SEA TESTING EQUIPMENT. EACH UNIT INCLUDES A VOCABULARY, FILL-IN QUESTIONS, DISCUSSION TOPICS, AND ACTIVITIES TO COMPLETE. NUMEROUS DIAGRAMS ILLUSTRATE TOPICS DISCUSSED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BL)

AVAILABILITY: REGIONAL MARINE SCIENCE PROJECT, CARTERET COUNTY PUBLIC SCHOOLS, BEAUFORT, N.C. 28516 (FREE)

INSTITUTION NAME: CARTERET COUNTY PUBLIC SCHOOLS, BEAUFORT, N.C.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED046717 SE010356 196

PUBLICATION DATE: MAY 69

TITLE: ECOLOGICAL EFFECTS OF WEATHER MODIFICATION: A PROBLEM ANALYSIS.

PERSONAL AUTHOR: COOPER, CHARLES F.; JOLLY, WILLIAM C.

INSTITUTION CODE: BBB04491

SPONSORING AGENCY CODE: BBB04490

DESCRIPTOR: BIOLOGICAL INFLUENCES; *CLIMATIC FACTORS; EARTH SCIENCE; *ECOLOGY; *ENVIRONMENT; *METEOROLOGY; NATURAL RESOURCES; *RESEARCH NEEDS; RESOURCE MATERIALS

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 165P.

ISSUE: RIEMAY71

THIS PUBLICATION REVIEWS THE POTENTIAL HAZARDS TO THE ENVIRONMENT OF WEATHER MODIFICATION TECHNIQUES AS THEY EVENTUALLY BECOME CAPABLE OF PRODUCING LARGE SCALE WEATHER PATTERN MODIFICATIONS. SUCH WEATHER MODIFICATIONS COULD RESULT IN ECOLOGICAL CHANGES WHICH WOULD GENERALLY REQUIRE SEVERAL YEARS TO BE FULLY EVIDENT, INCLUDING THE ALTERATION OF PLANT AND ANIMAL COMMUNITIES BY SHIFTS IN REPRODUCTION RATES, GROWTH, AND MORTALITY OF WEATHER SENSITIVE SPECIES. THE REPORT INCLUDES SECTIONS ON ANTICIPATED KINDS OF WEATHER MODIFICATIONS; EFFECTS IN SEMIARID CLIMATES AND IN HUMID CLIMATES; PESTS AND DISEASES; DIRECT EFFECTS OF SEEDING AGENTS; BIOLOGY OF LAKES AND STREAMS; FOG, HAIL, LIGHTNING, AND HURRICANE MODIFICATION; ENVIRONMENTAL MONITORING PROGRAMS; INFERENCES FROM ECOLOGICAL THEORY; RECOMMENDED RESEARCH; AND RECOMMENDED PRE-MODIFICATION FIELD SURVEYS. NOT AVAILABLE IN HARDCOPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT. (PR)

AVAILABILITY: SCHOOL OF NATURAL RESOURCES, MICHIGAN UNIV., ANN ARBOR, MICH.

INSTITUTION NAME: MICHIGAN UNIV., ANN ARBOR. SCHOOL OF NATURAL RESOURCES.

SPONSORING AGENCY NAME: DEPARTMENT OF THE INTERIOR, DENVER, COLO. OFFICE OF ATOMSPHERIC WATER RESOURCES.

ACCESSION NUMBERS: ED046715 SE010209

PUBLICATION DATE: 70

TITLE: THE SOURCE BOOK OF MARINE SCIENCES.

PERSONAL AUTHOR: BEAKLEY, JOHN C.; AND OTHERS

INSTITUTION CODE: BBB04492

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; LABORATORY EXPERIMENTS; MARINE BIOLOGY; *OCEANOLOGY; RESOURCE MATERIALS; *SCIENCE ACTIVITIES; *SECONDARY SCHOOL SCIENCE; TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 153P.

ISSUE: RIEMAY71

INCLUDED IS A TEACHERS RESOURCE COLLECTION OF 42 MARINE SCIENCE ACTIVITIES FOR HIGH SCHOOL STUDENTS. BOTH THE BIOLOGICAL AND THE PHYSICAL FACTORS OF THE MARINE ENVIRONMENT ARE INVESTIGATED, INCLUDING THE STUDY OF TIDES, LOCAL CURRENTS, MICROSCOPE MEASURING, BEACHES, TURBIDITY, SEA WATER SOLIDS, PH, AND SALINITY, MARINE BACTERIOLOGY, MICROBIOLOGY, BIOLUMINESCENCE, TAXONOMY, PLANKTON, SPONGES AND SPECULATION, PELECYPOD GILL, CRUSTACEA, SEA URCHIN DEVELOPMENT, SALINITY TOLERANCES, AND OTHER TOPICS. MOST ACTIVITIES ARE PERFORMED IN THE LABORATORY, BUT SAMPLE GATHERING REQUIRES ACCESS TO OCEAN BEACHES. ACTIVITIES ARE GENERALLY PRESENTED IN THE FORMAT--SEPARATE INTRODUCTORY STATEMENTS TO THE TEACHER AND TO THE STUDENT, PROBLEM STATEMENT, MATERIALS, PROCEDURE, AND QUESTIONS. THE SOURCE BOOK COULD SERVE AS A LABORATORY MANUAL. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (PR)

AVAILABILITY: TEXTBOOKS AND PUBLICATIONS, DEPT. OF EDUCATION, KNOTT BLDG., TALLAHASSEE, FLA. 32304 ($1.25)

INSTITUTION NAME: FLORIDA STATE DEPT. OF EDUCATION, TALLAHASSEE. DIV OF ELEMENTARY AND SECONDARY EDUCATION.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED046615 RC005049

PUBLICATION DATE: 70

TITLE: ENVIRONMENTAL AWARENESS FOR INDIAN EDUCATION.

INSTITUTION CODE: FGK08380

DESCRIPTOR: *AMERICAN INDIANS; ART EXPRESSION; COMMUNITY INVOLVEMENT; *CURRICULUM GUIDES; *EDUCATIONAL OBJECTIVES; *ENVIRONMENTAL EDUCATION; LANGUAGE ARTS; MYSTICISM; NATURAL RESOURCES; *PHYSICAL ENVIRONMENT; SCIENCE EDUCATION; SELF CONCEPT; SOCIAL STUDIES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 28P.

ISSUE: RIEMAY71

A SUGGESTED APPROACH FOR USE IN SCHOOLS ENROLLING INDIAN CHILDREN AND YOUTH IS INDICATED IN THIS CURRICULUM GUIDE FOR ENVIRONMENTAL EDUCATION. IT IS POINTED OUT THAT TRADITIONAL INDIAN LIFEWAYS AND BELIEFS WERE AND ARE EXTREMELY PERTINENT TO MAN'S LIVING IN BALANCE WITH HIS NATURAL ENVIRONMENT. THE GUIDE EXPRESSES THE BELIEF THAT THE USE OF THE INDIANNESS OF THE CHILD IS THE MOST IMPORTANT PART OF ENVIRONMENTAL EDUCATION FOR AMERICAN INDIAN STUDENTS. A SECTION ON "THE INDIAN SIDE OF ENVIRONMENTAL EDUCATION" EXPANDS THIS CONCEPT, AND SUGGESTED ACTIVITIES ARE GIVEN FOR IMPLEMENTATION. POTENTIAL FOR DEVELOPING A STRONG SELF-IMAGE IN INDIAN STUDENTS IS INHERENT IN THE PROGRAM. RELATING THE CONTEMPORARY NEED FOR PEOPLE THROUGHOUT THE WORLD TO LEARN TO LIVE IN HARMONY WITH THEIR SURROUNDINGS TO EXAMPLES OF THIS BALANCE ACHIEVED HISTORICALLY BY INDIANS THROUGHOUT THE AMERICAS IS THE PRIMARY ASPECT OF THE PROGRAM. THE PROGRAM APPROACH CALLS FOR INVOLVEMENT OF LOCAL INDIAN PEOPLE IN ACHIEVING A TRULY EFFECTIVE EDUCATIONAL EXPERIENCE. A SECTION OF RESOURCES AND REFERENCES INCLUDES LISTS OF BOOKS, PROGRAMS, PERIODICALS, BIBLIOGRAPHIES, NATIONAL COORDINATORS, NATIONAL ORGANIZATIONS, STATE DIRECTORS, CONSULTANTS, AND RESOURCE PEOPLE FOR ENVIRONMENTAL EDUCATION. (JH)

REPORT NUMBER: CURR-BULL-8

INSTITUTION NAME: BUREAU OF INDIAN AFFAIRS (DEPT. OF INTERIOR), WASHINGTON, D.C.

ACCESSION NUMBERS: ED046566 RC004959

PUBLICATION DATE: JAN 70

TITLE: AN IDEA (LIKE A SEEDLING) GROWS. GENESIS AND DEVELOPMENT OF OUTDOOR/CONSERVATION EDUCATION IN BLOOMFIELD HILLS, MICHIGAN.

PERSONAL AUTHOR: HOLLUMS, DON

DESCRIPTOR: CAMPING; CONSERVATION EDUCATION; *EDUCATIONAL PROGRAMS; FACILITY IMPROVEMENT; INSTRUCTIONAL IMPROVEMENT; NATURAL RESOURCES; *OBJECTIVES; *OUTDOOR EDUCATION; *PARKS; RECREATION; *SCHOOL DISTRICTS

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 7P.

ISSUE: RIEMAY71

THE DOCUMENT DESCRIBES HOW OUTDOOR EDUCATION IN THE BLOOMFIELD HILLS SCHOOL DISTRICT OF MICHIGAN CAN BE TRACED TO 1957, WHEN ELEMENTARY SCHOOL STUDENTS PARTICIPATED IN A RESIDENT OUTDOOR SCHOOL EXPERIENCE FOR A WEEK. IN 1968, A COMMITTEE ON OUTDOOR EDUCATION WAS FORMALLY ORGANIZED. THE COMMITTEE DEVELOPED A RATIONALE AND OBJECTIVES FOR OUTDOOR EDUCATION FOR THE BLOOMFIELD HILLS SCHOOLS. THE BROAD OBJECTIVE TOPICS WHICH PROVIDE THE RATIONALE ARE: (1) AN APPRECIATION OF NATURAL RESOURCES; (2) IMPROVED INSTRUCTION IN SCIENCE, LANGUAGE, ARTS, SOCIAL STUDIES; (3) DEVELOPMENT OF RECREATIONAL SKILLS IN THE OUTDOORS; (4) SOCIAL EXPERIENCE; (5) COMMUNITY SERVICE; AND (6) AESTHETIC AWARENESS. IN THE DOCUMENT, IT IS NOTED THAT THE OUTDOOR/CONSERVATION EDUCATION PROGRAM AND FACILITIES ARE ESSENTIAL TO THIS COMMUNITY, SINCE THE CITY HAS NO PUBLIC PARKS OR RECREATION AREAS, AND THE SCHOOL SITES MUST SERVE AS NEIGHBORHOOD PARKS. FUTURE PLANS RELATE TO YOUTH INVOLVEMENT IN THE DEVELOPMENT OF FACILITIES, THE DEVELOPMENT OF A SCHOOL GARDEN-FARM PROGRAM, AND INFORMING PATRONS OF THE SCHOOL DISTRICT AS TO PROGRAM PROGRESS. (AN)

ACCESSION NUMBERS: ED046132 EA003261

PUBLICATION DATE: OCT 70

TITLE: ENVIRONMENTAL EDUCATION IN THE PUBLIC SCHOOLS. A PILOT STUDY. SPECIAL REPORT.

INSTITUTION CODE: BBB03567; FGK56700

SPONSORING AGENCY CODE: FGK01520

DESCRIPTOR: *CONSERVATION EDUCATION; CURRICULUM; ECOLOGY; *ENVIRONMENTAL EDUCATION; FACILITY UTILIZATION RESEARCH; INSERVICE EDUCATION; *NATIONAL SURVEYS; *OUTDOOR EDUCATION; PARKS; PERSONNEL; PROGRAM CONTENT; *PUBLIC SCHOOLS

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 69P.

ISSUE: RIEMAY71

PROJECT MAN'S ENVIRONMENT WAS ORGANIZED IN 1969 TO ESTABLISH A BASIS FOR THE DEVELOPMENT OF ENVIRONMENTAL EDUCATION IN THE SCHOOL CURRICULA. PILOT SURVEYS WERE CONDUCTED BY THE NEA RESEARCH DIVISION AND A NATIONWIDE SURVEY WAS CONDUCTED OF PUBLIC SCHOOL PROGRAMS IN ENVIRONMENTAL, CONSERVATION, AND OUTDOOR EDUCATION FOR SYSTEMS ENROLLING 1,000 OR MORE STUDENTS. THIS REPORT PRESENTS SURVEY RESULTS IN SIX MAJOR SECTIONS. AN INITIAL SURVEY OVERVIEW SECTION IS FOLLOWED BY FIVE SECTIONS PROVIDING THE FOLLOWING DETAILED FINDINGS: (1) THE EMPHASES AND PURPOSES OF PROGRAMS AND THE BASIC STATISTICS RELATED TO THEIR SCOPE; (2) EACH PROGRAM'S CURRICULUM AND ACTIVITIES; (3) THE NUMBER, SIZE, ACCESSIBILITY, AND FEATURES OF SITES AS WELL AS THE ADMINISTRATIVE PROCEDURES FOR REQUISITIONING SITES FOR SCHOOL USE; (4) A DESCRIPTION OF PROGRAM PERSONNEL, AND (5) THE FINANCING OF ENVIRONMENTAL EDUCATION PROGRAMS. A POSTSCRIPT REPORTS BRIEFLY ON NEEDS FOR THE FUTURE DEVELOPMENT OF ENVIRONMENTAL EDUCATION. (AUTHOR)

AVAILABILITY: NEA PUBLICATIONS SALES SECTION, 1201 SIXTEENTH STREET, N.W., WASHINGTON, D.C. 20036. (STOCK NO. 435-25450, $1.50)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. NATIONAL PARK SERVICE.; NATIONAL EDUCATION ASSOCIATION, WASHINGTON, D.C.

SPONSORING AGENCY NAME: AMERICAN ASSOCIATION FOR HEALTH, PHYSICAL EDUCATION, AND RECREATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED045513 SO000400

PUBLICATION DATE: 26 NOV 70

TITLE: AN ECOSYSTEM APPROACH TO A LIVABLE ENVIRONMENT FOR MAN.

PERSONAL AUTHOR: BUECHNER, HELMUT K.

INSTITUTION CODE: FGK56515

DESCRIPTOR: CONSERVATION EDUCATION; *ENVIRONMENTAL EDUCATION; *INTERDISCIPLINARY APPROACH; MODELS; *NATURAL SCIENCES; SCIENCE CURRICULUM; SCIENTIFIC ATTITUDES; SOCIAL ATTITUDES; *SOCIAL SCIENCES; SOCIAL SYSTEMS; *SYSTEMS CONCEPTS

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.75

DESCRIPTIVE NOTE: 13P.; PAPER PRESENTED AT THE ANNUAL CONVENTION, NATIONAL COUNCIL FOR THE SOCIAL STUDIES, NOVEMBER 26, 1970

ISSUE: RIEAPR71

IN THE SPEECH THE MAIN POINT IS MADE THAT THE HUMAN ECOSYSTEM OF THE WORLD IS SUBJECT TO SCIENTIFIC INQUIRY AND AS A CONSEQUENCE A NEW WAY IS NEEDED TO VIEW THE PLANET EARTH. THREE SETS OF FACTS HAVE NOW BEEN ESTABLISHED CONCERNING THE EARTH AND ITS INHABITANTS: 1) THE EARTH AND ITS LIFE FORMS CONSTITUTE A SYSTEM; 2) THE MANY SUB-SYSTEMS OF LIFE --MOLECULES, CELLS, ORGANISMS, SPECIES, AND SOCIETIES-- ARE A PART OF A HIGHLY COMPLEX AND INTERDEPENDENT ECOSYSTEM; 3) HUMAN SOCIETY IS AN INTEGRAL PART OF THAT ECOSYSTEM. THE ECOSYSTEM, WHICH BEHAVES "INTELLIGENTLY", GROWS, ADJUSTS, RECUPERATES, ETC., IN ORDER TO REMAIN VIABLE. THE QUESTION THUS TO BE ANSWERED IS, HOW CAN HUMAN SOCIETY CONTRIBUTE RATHER THAN DETRACT FROM THAT VIABILITY? THE ANSWER IS GIVEN IN THE ADVICE THAT EDUCATION CAN PLAY A VERY IMPORTANT ROLE IN REORIENTING MAN'S THINKING SO THAT HE SEES HIMSELF AS PART OF THE ECOSYSTEM RATHER THAN BEING AGAINST IT. SUCH A REORIENTATION IS FELT TO BE NOT ONLY NECESSARY FOR THE PRESERVATION OF THE ECOSYSTEM, HENCE HUMAN LIFE, BUT IT OPENS NEW VISTAS FOR THE DEVELOPMENT OF MANKIND. (CWB)

INSTITUTION NAME: NATIONAL COUNCIL FOR THE SOCIAL STUDIES, WASHINGTON, D.C.

ACCESSION NUMBERS: ED045456 SE010605 202

PUBLICATION DATE: 70

TITLE: OUTDOOR EDUCATION, JUNIOR BIOLOGY FIELD STUDIES.

PERSONAL AUTHOR: AIKMAN, JOHN H.; AND OTHERS

INSTITUTION CODE: BBB04412

DESCRIPTOR: BIOLOGY; EARTH SCIENCE; FIELD STUDIES; *INSTRUCTIONAL MATERIALS; *NATURAL RESOURCES; *OUTDOOR EDUCATION; RESOURCE MATERIALS; *SECONDARY SCHOOL SCIENCE; *TEACHING GUIDES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 134P.

ISSUE: RIEAPR71

FIELD STUDIES FOR GRADE NINE AND TEN BIOLOGY STUDENTS ARE DEVELOPED IN THIS TEACHER AND STUDENT GUIDE FOR OUTDOOR EDUCATION. A SMALL SECTION IS DEVOTED TO TEACHER PRE-PLANNING AND FINAL SECTIONS ARE CONCERNED WITH EQUIPMENT, AUDIO-VISUAL RESOURCES, AND A LARGE BOOKLIST. TWENTY-THREE INVESTIGATIONS RELATED TO EARTH SCIENCE AND BIOLOGY TOPICS ARE ENUMERATED INCLUDING STUDIES OF FIELD TO FOREST TRANSITIONS, LAWNS, TREES, RAVINES, PONDS AND STREAMS, MARSHLANDS AND GRASSLANDS, PLANTS AND ANIMALS. EACH UNIT OF STUDY PROVIDES INSTRUCTION SHEETS GIVING ITS PURPOSE, EQUIPMENT REQUIRED, PROCEDURES TO FOLLOW, DESCRIPTIVE CHARTS, AND DATA RECORDING SHEETS. A GUIDEBOOK OF SIMILAR DESIGN DEALING WITH CORRESPONDING TOPICS FOR USE IN GRADE 6, 9, AND 10 GENERAL OUTDOOR EDUCATION PROGRAMS IS ALSO AVAILABLE. NOT AVAILABLE DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT. (BL)

AVAILABILITY: ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE AND MATHEMATICS EDUCATION, 1460 WEST LANE AVE., COLUMBUS, OHIO 43221 (LOAN)

INSTITUTION NAME: HAMILTON CITY BOARD OF EDUCATION (ONTARIO).

ACCESSION NUMBERS: ED045452 SE010525

PUBLICATION DATE: 69

TITLE: SCIENCE AND ENVIRONMENT. PANEL REPORTS OF THE COMMISSION ON MARINE SCIENCE, ENGINEERING AND RESOURCES.

INSTITUTION CODE: BBB04335

DESCRIPTOR: *ENVIRONMENT; FEDERAL PROGRAMS; *NATURAL RESOURCES; *OCEANOLOGY; POLICY; *PROGRAM DEVELOPMENT; *PROGRAMS; RESEARCH NEEDS; RESOURCE MATERIALS

EDRS PRICE: EDRS PRICE MF-$1.50 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 361P.; VOLUME 1

ISSUE: RIEAPR71

THIS REPORT IS THE FIRST OF THREE VOLUMES WITH THE MAIN FUNCTION OF RECOMMENDING AN OVERALL PLAN FOR AN ADEQUATE NATIONAL OCEANOGRAPHIC PROGRAM THAT WILL MEET THE PRESENT AND FUTURE NATIONAL NEEDS. THE VOLUME IS DIVIDED INTO FOUR SECTIONS. THE FIRST ATTEMPTS TO CLARIFY THE PRESENT STATE OF BASIC MARINE SCIENCE AND ITS RELATIONSHIP TO THE NEEDS OF THE NATION. THE SECOND SECTION CONSIDERS THE NEED FOR A GLOBAL ENVIRONMENTAL MONITORING AND PREDICTING SYSTEM AND MAKES RECOMMENDATIONS FOR ITS ORGANIZATION, DESCRIBES AND APPRAISES THE PRESENT SYSTEM OF MONITORING AND PREDICTING, REVIEWS RECENT TECHNOLOGICAL ADVANCES, AND OTHER RELATED AREAS. THE THIRD SECTION REVIEWS THE MANAGEMENT AND DEVELOPMENT OF THE COASTAL ZONE, DESCRIBING ITS SCOPE AND IMPORTANCE, ITS USES AND SUBSEQUENT RESULTS, POLLUTION, TRANSPORTATION, RESEARCH, FEDERAL AND STATE ACTIVITIES, LAWS, RECOMMENDATIONS AND A PROPOSED PROGRAM RELATED TO COASTAL ZONE. THE FOURTH SECTION BRIEFLY REVIEWS THE STATUS OF EDUCATION, MANPOWER, AND TRAINING IN THE MARINE SCIENCES. (PR)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (CAT. NO. PR 36.8:M 33/P 19/V.1-3, $10.25, SOLD IN SETS OF 3 VOLUMES ONLY)

INSTITUTION NAME: COMMISSION ON MARINE SCIENCE, ENGINEERING AND RESOURCES, WASH., D.C.

ACCESSION NUMBERS: ED045441 SE010430

PUBLICATION DATE: 70

TITLE: OUTDOOR EDUCATION.

PERSONAL AUTHOR: AIKMAN, JOHN H.; BROWN, M. DAVID

INSTITUTION CODE: BBB04412

DESCRIPTOR: *CURRICULUM; *INSTRUCTION; INTERDISCIPLINARY APPROACH; LEARNING ACTIVITIES; *NATURAL RESOURCES; *OUTDOOR EDUCATION; PROGRAM PLANNING; RESOURCE MATERIALS; SCIENCE EDUCATION; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 133P.

ISSUE: RIEAPR71

DEVELOPED FOR SIXTH-, NINTH-, AND TENTH-GRADE TEACHERS INVOLVED IN OUTDOOR EDUCATION, THIS GUIDEBOOK PRESENTS A COMPREHENSIVE APPROACH TO PROGRAM PLANNING AND CURRICULUM DEVELOPMENT IN THE OUT-OF-DOORS. INCLUDED ARE PRELIMINARY PLANNING CHECKLISTS, DUTIES, INFORMATION AND CONSENT FORMS, AND TOPIC SUMMARIES. TWO-THIRDS OF THE BOOK IS DEVOTED TO INDIVIDUAL EARTH SCIENCE STUDY TOPICS. EACH UNIT OF STUDY PROVIDES INSTRUCTION SHEETS GIVING ITS PURPOSE, EQUIPMENT REQUIRED, PROCEDURES TO FOLLOW, AND DATA RECORDING SHEETS. CONCLUDING SECTIONS COVER RELATIONSHIPS OF RESOURCES, FOLLOW-UP ACTIVITIES IN DIFFERENT SUBJECT AREAS, A LARGE BOOKLIST, AND AUDIO-VISUAL RESOURCES AVAILABLE. A GUIDEBOOK OF SIMILAR DESIGN, DEALING SPECIFICALLY WITH JUNIOR BIOLOGY FIELD STUDIES IS ALSO AVAILABLE. NOT AVAILABLE IN HARDCOPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT. (BL)

INSTITUTION NAME: HAMILTON CITY BOARD OF EDUCATION (ONTARIO).

ACCESSION NUMBERS: ED045437 SE010423

PUBLICATION DATE: 70

TITLE: ENVIRONMENTAL EDUCATION INSTRUCTIONAL ACTIVITIES, 7-12.

INSTITUTION CODE: QPX62775

DESCRIPTOR: CURRICULUM; ECOLOGY; *ENVIRONMENTAL EDUCATION; INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LEARNING ACTIVITIES; NATURAL RESOURCES; RESOURCE MATERIALS; *SECONDARY EDUCATION; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.05

DESCRIPTIVE NOTE: 59P.

ISSUE: RIEAPR71

AS ONE IN A SERIES OF TWO TEACHER'S GUIDES DEALING WITH ENVIRONMENTAL EDUCATION, THIS PUBLICATION FOR GRADES 7-12 CONTAINS BASIC CONCEPTS, ACTIVITIES, AND QUESTIONS DESIGNED TO EMPHASIZE THE PRIMARY ROLE OF MAN AS A PARTICIPANT IN, RATHER THAN MASTER OF, HIS NATURAL SURROUNDINGS. TOPICS COVERED INCLUDE SURVIVAL, INTERDEPENDENCE, SCARCITY, RECYCLEMENT, RIGHT VS. RESPONSIBILITY, PLANNING, VALUING, SOCIAL FORCES, AND OPTIMISM. FOR EACH CONCEPT OR GENERALIZATION, ACTIVITIES WHICH THE TEACHER MIGHT CONDUCT ARE SUGGESTED ACCOMPANIED BY SEVERAL PROBING QUESTIONS. ACTIVITIES ARE NOT INTENDED TO REFLECT A SUBJECT MATTER ORIENTATION. THREE APPENDICES PROVIDE USEFUL INFORMATION AS TO (1) A LIST OF SUBJECT HEADINGS AND TOPICS PERTINENT TO THE ENVIRONMENT; (2) PERIODICAL, GENERAL, AND FILM INDEXES FEATURING ENVIRONMENTAL CONCERNS; (3) INDIVIDUALS, GROUPS, AND GOVERNMENT AGENCIES THAT MAY SERVE AS RESOURCES OF INFORMATION OR AS CLASSROOM SPEAKERS ON THE ENVIRONMENTAL ISSUE. (BL)

INSTITUTION NAME: NEW YORK STATE EDUCATION DEPT., ALBANY.

ACCESSION NUMBERS: ED045436 SE010422

PUBLICATION DATE: 70

TITLE: ENVIRONMENTAL EDUCATION INSTRUCTIONAL ACTIVITIES, K-6.

INSTITUTION CODE: QPX62775

DESCRIPTOR: CURRICULUM; ECOLOGY; *ELEMENTARY EDUCATION; *ENVIRONMENTAL EDUCATION; INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LEARNING ACTIVITIES; NATURAL RESOURCES; RESOURCE MATERIALS; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.00

DESCRIPTIVE NOTE: 58P.

ISSUE: RIEAPR71

AS ONE IN A SERIES OF TWO TEACHER'S GUIDES DEALING WITH ENVIRONMENTAL EDUCATION, THIS PUBLICATION FOR GRADES K-6 CONTAINS BASIC CONCEPTS, ACTIVITIES, AND QUESTIONS DESIGNED TO EMPHASIZE THE PRIMARY ROLE OF MAN AS A PARTICIPANT IN, RATHER THAN MASTER OF, HIS NATURAL SURROUNDINGS. TOPICS COVERED INCLUDE SURVIVAL, INTERDEPENDENCE, SCARCITY, RECYCLEMENT, RIGHT VS. RESPONSIBILITY, PLANNING, VALUING, SOCIAL FORCES, AND OPTIMISM. FOR EACH CONCEPT OR GENERALIZATION, ACTIVITIES WHICH THE TEACHER MIGHT CONDUCT ARE SUGGESTED ACCOMPANIED BY SEVERAL PROBING QUESTIONS. ACTIVITIES ARE NOT INTENDED TO REFLECT A SUBJECT MATTER ORIENTATION. THREE APPENDICES PROVIDE USEFUL INFORMATION AS TO (1) A LIST OF SUBJECT HEADINGS AND TOPICS PERTINENT TO THE ENVIRONMENT; (2) PERIODICAL, GENERAL, AND FILM INDEXES FEATURING ENVIRONMENTAL CONCERNS; (3) INDIVIDUALS, GROUPS, AND GOVERNMENT AGENCIES THAT MAY SERVE AS RESOURCES OF INFORMATION OR AS CLASSROOM SPEAKERS ON THE ENVIRONMENTAL ISSUE. (BL)

INSTITUTION NAME: NEW YORK STATE EDUCATION DEPT., ALBANY.

ACCESSION NUMBERS: ED045433 SE010419

PUBLICATION DATE: 69

TITLE: FILMS ON OCEANOGRAPHY.

PERSONAL AUTHOR: CUZON DU REST, R. P.

INSTITUTION CODE: BBB02553

DESCRIPTOR: CATALOGS; *ENVIRONMENTAL EDUCATION; *FILMS; GOVERNMENT PUBLICATIONS; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *OCEANOLOGY; RESOURCE MATERIALS; WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.50 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 101P.

ISSUE: RIEAPR71

THIS FILM LIST COMPILED BY THE U.S. NAVAL OCEANOGRAPHIC OFFICE IS SEPARATED INTO SIX CATEGORIES: GENERAL OCEANOGRAPHY, BIOLOGY, CHEMISTRY, ENGINEERING, GEOLOGY, AND PHYSICS. AN INDEX OF FILMS IS FOLLOWED BY ADDRESSES OF NAVAL DISTRICTS AND LISTS OF DISTRIBUTION CENTERS. EACH FILM LISTED IS DESCRIBED AS TO CONTENT, RUNNING TIME, TYPE OF FILM, AUDIENCE LEVEL. SOURCES OF AND PROCEDURES FOR BUYING OR BORROWING THE FILMS ARE GIVEN. (BB)

REPORT NUMBER: C-4

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (GPO 0-338-156, $1.00)

INSTITUTION NAME: NAVAL OCEANOGRAPHIC OFFICE, WASHINGTON, D.C.

ACCESSION NUMBERS: ED045431 SE010211

PUBLICATION DATE: 70

TITLE: BULLETIN OF COURSES, JULY 1970 TO DECEMBER 1971, WATER POLLUTION CONTROL TRAINING PROGRAM.

INSTITUTION CODE: BBB03718

DESCRIPTOR: CONSERVATION EDUCATION; ECOLOGY; *EDUCATIONAL PROGRAMS; ENVIRONMENTAL EDUCATION; *INSTRUCTION; NATURAL RESOURCES; *PROGRAM DESCRIPTIONS; *WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$2.55

DESCRIPTIVE NOTE: 49P.

ISSUE: RIEAPR71

THIS BULLETIN DESCRIBES THE COURSES OFFERED AT THE FIVE FEDERAL WATER QUALITY ADMINISTRATION TRAINING CENTERS IN THE U.S. FROM JULY 1970 TO DECEMBER 1971. INFORMATION FOR APPLICANTS, APPLICATIONS FOR TRAINING FORMS AND ADDRESSES OF RELATED ENVIRONMENTAL TRAINING PROGRAMS ARE INCLUDED. THE OBJECTIVE OF THE PROGRAM IS TO PROVIDE SPECIALIZED TRAINING IN THE CAUSES, PREVENTION, AND CONTROL OF WATER POLLUTION. TRAINING NOT GENERALLY AVAILABLE ELSEWHERE IS FEATURED IN SPECIALIZED SUBJECTS, INCLUDING RECENT DEVELOPMENTS IN SANITARY ENGINEERING, CHEMISTRY, AQUATIC BIOLOGY, AND MICROBIOLOGY IN THE FIELD AND IN THE LABORATORY. IT IS EXPECTED THAT TRAINING PROVIDED WILL LEAD TO RAPID APPLICATION OF NEW RESEARCH FINDINGS, INCREASE SKILLS OF TECHNICAL AND PROFESSIONAL PERSONNEL, AND TRAIN NEW EMPLOYEES RECRUITED FROM OTHER FIELDS. (BB)

AVAILABILITY: U.S. DEPT. OF THE INTERIOR, FEDERAL WATER QUALITY ADMINISTRATION, 4676 COLUMBIA PARKWAY, CINCINNATI, OHIO 45226

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D. C. FEDERAL WATER POLLUTION CONTROL ADMINISTRATION.

ACCESSION NUMBERS: ED045430 SE010210

PUBLICATION DATE: 70

TITLE: OCEANOGRAPHY: AN ENVIRONMENTAL APPROACH TO MARINE SCIENCE. SECOND EDITION.

PERSONAL AUTHOR: RABINOWITZ, ALAN; AND OTHERS

INSTITUTION CODE: BBB04353

DESCRIPTOR: *CURRICULUM GUIDES; ECOLOGY; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; OBJECTIVES; *OCEANOLOGY; *SECONDARY SCHOOL SCIENCE; *TEACHING GUIDES; UNIT PLAN

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 221P.

ISSUE: RIEAPR71

MATERIALS FOR A FULL-YEAR COURSE IN OCEANOGRAPHY ARE CONTAINED IN THIS COMPREHENSIVE TEACHER'S GUIDE. IT PROVIDES AN ENVIRONMENTAL APPROACH EMPHASIZING THE INTERDISCIPLINARY NATURE OF THE STUDY OF AQUATIC SCIENCE. FURTHER, IT ALLOWS FOR PUPIL INTERACTION AS WELL AS INDEPENDENT STUDY VIA INVESTIGATIONS AND EXPERIMENTS IN THE CLASSROOM, LABORATORY, AND FIELD. THE TEACHER IS PROVIDED WITH A SCHEME FOR PRESENTING , COORDINATING, AND EVALUATING EACH LESSON. THE PLAN OF DEVELOPMENT INCORPORATES: (A) RATIONALE, (B) OBJECTIVES--AN OUTLINE OF CONCEPTS, SKILLS, AND ACTIVITIES TO BE MASTERED, (C) SUBJECT MATTER BACKGROUND, (D) OUTLINE OF SUBJECT MATTER INCLUDING CONCEPTS AND SUB-CONCEPTS, (E) LABORATORY EXERCISES, (F) VOCABULARY LIST, AND (G) QUESTIONS FOR CONSIDERATION AND/OR RESEARCH. APPENDICES INCLUDE A MASTER WORD LIST, TABLES OF CONVERSION FACTORS, A LARGE BIBLIOGRAPHY OF BOOKS, FILMS, PERIODICALS, LEAFLETS AND TECHNICAL REPORTS, AND A GENERAL AND DETAILED COURSE OUTLINE IN OCEANOGRAPHY WITH ACCOMPANYING MATERIALS REQUIRED FOR IT. (BL)

AVAILABILITY: OCEANOGRAPHY UNLIMITED, INC., 91 DELAWARE AVE., PATERSON, N.J. 07503 ($7.00)

INSTITUTION NAME: OCEANOGRAPHY UNLIMITED, PATERSON, N.J.

ACCESSION NUMBERS: ED045429 SE010208 210

PUBLICATION DATE: 70

TITLE: AN INTEGRATED APPROACH TO TEACHING CONSERVATION IN THE HIGH SCHOOL.

INSTITUTION CODE: ZQU98400

DESCRIPTOR: *CONSERVATION EDUCATION; *CURRICULUM GUIDES; INSTRUCTION; *INTEGRATED CURRICULUM; *INTERDISCIPLINARY APPROACH; NATURAL RESOURCES; *SECONDARY EDUCATION; TEACHING GUIDES; UNIT PLAN

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 44P.

ISSUE: RIEAPR71

DESIGNED TO AID THOSE WISHING TO INTEGRATE CONSERVATION EDUCATION INTO ALL HIGH SCHOOL SUBJECTS, SUGGESTIONS IN THIS CURRICULUM GUIDE MAY BE USED AS A PART OF A UNIT OR AS AN ENTIRE UNIT IN EACH SCHOOL COURSE. AN OUTLINE OF THE PHILOSOPHY, HISTORY, DEVELOPMENT, AND RESOURCES OF CONSERVATION ARE FIRST PRESENTED TO SERVE AS A GUIDE FOR DISCUSSIONS. WITHIN EACH SUBJECT AREA OBJECTIVES, TOPICS FOR STUDY OR DISCUSSION, AND APPROPRIATE ACTIVITIES ARE SUGGESTED. FIELDS OF STUDY INCLUDE GEOGRAPHY, HISTORY, PROBLEMS OF DEMOCRACY, ECONOMICS, ENGLISH, SOCIAL STUDIES, ART, CHEMISTRY, PHYSICS, BIOLOGY, AND VOCATIONAL AGRICULTURE. (BL)

AVAILABILITY: ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE AND MATHEMATICS EDUCATION, 1460 WEST LANE AVE., COLUMBUS, OHIO 43221 (LOAN)

INSTITUTION NAME: WISCONSIN UNIV., MADISON. SCHOOL OF EDUCATION.

ACCESSION NUMBERS: ED045428 SE010207

PUBLICATION DATE: 70

TITLE: EDUCATION FOR SURVIVAL; A SOCIAL STUDIES AND SCIENCE CURRICULUM GUIDE FOR GRADES 1, 2, 3.

PERSONAL AUTHOR: GRUBMAN, RUTH W.; AND OTHERS

INSTITUTION CODE: BBB04336

DESCRIPTOR: CONCEPT FORMATION; *CONSERVATION EDUCATION; *CURRICULUM GUIDES; ELEMENTARY EDUCATION; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; *NATURAL SCIENCES; *SOCIAL SCIENCES; TEACHING TECHNIQUES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 256P.

ISSUE: RIEAPR71

THIS BOOK IS ONE OF A SERIES ON EDUCATION FOR SURVIVAL AND INTEGRATES A CONSERVATION CURRICULUM INTO A SOCIAL STUDIES AND SCIENCE PROGRAM FOR GRADES 1, 2, AND 3. IT WAS DEVELOPED TO HELP LEAD YOUNG PEOPLE TO AN AWARENESS OF ENVIRONMENTAL PROBLEMS WHICH CONFRONT OUR SOCIETY. THE FIRST CHAPTER PRESENTS A RESUME OF ALL SOCIAL SCIENCE CURRICULUM UNITS TO SHOW HOW THE CONSERVATION AND FAMILY LIFE UNITS IN THE GUIDE ARE INTERWOVEN WITHIN THE EXISTING CURRICULUM. CONSERVATION AND ENVIRONMENTAL INTERDEPENDENCE CONCEPTS ARE EXPLICITLY DEVELOPED FOR EACH UNIT WITHIN EACH GRADE ACCOMPANIED BY NUMEROUS ACTIVITIES AND AIDS, INCLUDING CLASSROOM EXPERIMENTS, SUGGESTIONS FOR FIELD TRIPS, AND SUPPLEMENTAL ACTIVITIES FROM WHICH THE TEACHER MIGHT CHOOSE. UNITS OF GRADE 1 EMPHASIZE THE HOME, PLANTS AND ANIMALS, TREE CONSERVATION, AND RURAL AND URBAN FAMILY LIFE WHILE GRADE 2 STRESSES RECREATIONAL FACILITIES, WATER, PLANTS, ANIMALS, AND COMMUNITY LIFE; GRADE 3 DEALS WITH A COMPARATIVE STUDY OF INDIANS AND EARLY SETTLERS, MACHINES, URBAN LIFE, AND THE U.S. TODAY. (BL)

AVAILABILITY: THE NORTH JERSEY CONSERVATION FOUNDATION, 300 MENDHAM RD., MORRISTOWN, N.J. 07960 ($3.75)

INSTITUTION NAME: NORTH NEW JERSEY CONSERVATION FOUNDATION, MORRISTOWN.

ACCESSION NUMBERS: ED045426 SE010202 212

PUBLICATION DATE: 69

TITLE: OUR MAN-MADE ENVIRONMENT: BOOK SEVEN, REVISED EDITION.

PERSONAL AUTHOR: LEVY, ALAN G.

INSTITUTION CODE: BBB04367

SPONSORING AGENCY CODE: FGK02155

DESCRIPTOR: ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; MANIPULATIVE MATERIALS; *PROBLEM SOLVING; *SECONDARY EDUCATION; STUDY GUIDES; *WORKBOOKS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 82P.

ISSUE: RIEAPR71

TO HELP ONE SEE HIS MAN-MADE ENVIRONMENT IN A NEW WAY IS THE MAIN PURPOSE OF THIS STUDENT WORKBOOK. THREE BASIC QUESTIONS ARE PRESENTED--WHAT IS THE MAN-MADE ENVIRONMENT, WHY IT IS, AND HOW CAN WE CHANGE IT? THEN, THROUGH A SERIES OF RELATED PROBLEMS AND DISCUSSION, ANSWERS ARE DISCOVERED OR CHOICES MADE DEPENDING ON THE WAY ONE SEES HIS WORLD OR WANTS IT TO BE. EXPERIMENTS AND ACTIVITIES ARE SUGGESTED AND BUILDING MATERIALS AND ARCHITECTURAL PLANS ARE CONSIDERED TO HELP JUNIOR HIGH SCHOOL STUDENTS UNDERSTAND THE MAN-MADE ENVIRONMENT. NUMEROUS PICTURES AND CUT-OUT OBJECTS HELP TO ACCOMPLISH THIS APPROACH TO PROBLEM SOLVING. (BL)

AVAILABILITY: GROUP FOR ENVIRONMENTAL EDUCATION, 1214 ARCH ST., PHILADELPHIA, PA. 19107 ($5.50 EACH, $1.50 EACH FOR 50 OR MORE)

INSTITUTION NAME: GROUP FOR ENVIRONMENTAL EDUCATION, PHILADELPHIA, PA.

SPONSORING AGENCY NAME: AMERICAN INST. OF ARCHITECTS, WASHINGTON, D.C.

ACCESSION NUMBERS: ED045406 SE010135

PUBLICATION DATE: 69

TITLE: INVITING INVOLVEMENT WITH HISTORY; FOUNDING A NEW SETTLEMENT: SURVIVAL SKILLS.

PERSONAL AUTHOR: HIROS, JOHN E.: MASON, FRED J.

INSTITUTION CODE: BBB02579

DESCRIPTOR: AMERICAN HISTORY; ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; INTERDISCIPLINARY APPROACH; *OUTDOOR EDUCATION; SECONDARY SCHOOL SCIENCE; *SOCIAL STUDIES; *TEACHING GUIDES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 38P.

ISSUE: RIEAPR71

DESCRIBED ARE INDOOR AND OUTDOOR LESSONS FOR INTERMEDIATE AND JUNIOR HIGH STUDENTS. THESE LESSONS ARE INTENDED TO HELP STUDENTS UNDERSTAND HOW THE PHYSICAL AND CULTURAL NEEDS OF MAN ARE DIRECTLY RELATED TO THE ENVIRONMENT. LEARNING THROUGH INVOLVEMENT IN DIRECT PERSONAL EXPERIENCE IS EMPHASIZED WITH STUDENTS ENCOURAGED TO ROLE PLAY AS EARLY SETTLERS, AND TO DECIDE WHAT WERE THE ESSENTIALS FOR LIFE IN A NEW SETTLEMENT. "INVITING INVOLVEMENT WITH HISTORY" HAS STUDENTS EXAMINE HISTORIC SITES AND BUILDINGS (70 OR MORE YEARS OLD) AND COMPARE THESE WITH MODERN BUILDINGS FOR SIMILARITIES AND DIFFERENCES, AND UNDERTAKE OTHER RELATED ACTIVITIES. IN "FOUNDING A NEW SETTLEMENT: SURVIVAL SKILLS", STUDENTS ARE INVOLVED IN IDENTIFYING A FEW SPECIES OF EDIBLE FLORA AND FAUNA, PREPARING FOODS FROM WILD PLANTS, FASHIONING TOOLS AND UTENSILS, BUILDING SHELTERS, AND OTHER ACTIVITIES. (PR)

AVAILABILITY: CONSERVATION AND ENVIRONMENTAL STUDIES CENTER FOR SOUTHERN NEW JERSEY, BOX 2230, RD 2, BROWNS MILLS, N.J. 08015 ($1.00 EACH)

INSTITUTION NAME: CONSERVATION AND ENVIRONMENTAL SCIENCE CENTER FOR SOUTHERN NEW JERSEY, BROWNS MILLS.

ACCESSION NUMBERS: ED045404 SE010132

PUBLICATION DATE: 68

TITLE: INTERDISCIPLINARY OUTDOOR EDUCATION, HIKING.

PERSONAL AUTHOR: WITHAM, M. RAY

INSTITUTION CODE: ZBQ90109

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: ENVIRONMENT; ENVIRONMENTAL EDUCATION; INTEGRATED ACTIVITIES; *INTERDISCIPLINARY APPROACH; NATURE CENTERS; *OUTDOOR EDUCATION; *RESOURCE MATERIALS

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.50 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 60P.

ISSUE: RIEAPR71

THIS MANUAL PRESENTS INFORMATION AND IDEAS FOR THE TEACHER OR ADVISOR INTERESTED IN FORMING A HIKING CLUB. SUGGESTIONS ARE MADE FOR CLUB ORGANIZATION, ACTIVITIES, ADVISOR RESPONSIBILITIES, HIKING EQUIPMENT AND SKILLS, SAFETY, FIRST AID, AND MAP AND COMPASS USE. A LIST OF GUIDE BOOKS FOR THE WASHINGTON AREA AND A LIST OF GENERAL INSTRUCTIONAL BOOKS ARE INCLUDED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. NOT AVAILABLE IN HARDCOPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT. (PR)

AVAILABILITY: OUTDOOR EDUCATION, SHORELINE SCHOOL DISTRICT NO. 412, NORTHEAST 158TH AND 20TH AVE., N.E., SEATTLE, WASHINGTON 98155 ($0.50)

INSTITUTION NAME: SHORELINE SCHOOL DISTRICT 412, SEATTLE, WASH.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED045402 SE010130

PUBLICATION DATE: 69

TITLE: THE WORLD AROUND THEM: ENVIRONMENTAL EDUCATION IN THE URBAN ENVIRONMENT.

PERSONAL AUTHOR: HENDERSON, ERNEST L.

INSTITUTION CODE: BBB04370

DESCRIPTOR: *ELEMENTARY SCHOOL SCIENCE; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *OUTDOOR EDUCATION; RESOURCE MATERIALS; TEACHING GUIDES; *URBAN ENVIRONMENT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 27P.

ISSUE: RIEAPR71

THIS MANUAL IS A TEACHER'S GUIDE TO ENVIRONMENTAL STUDY ACTIVITIES FOR INTERMEDIATE GRADE STUDENTS IN URBAN AREAS. IT IS DIVIDED INTO FOUR COLOR CODED SECTIONS: A CITY BLOCK-AN ENVIRONMENTAL DESIGN; THE STREETS OF THE CITY; NOISE POLLUTION; AND STUDENT WORKSHEETS AND STUDY GUIDES. EACH OF THESE SECTIONS PRESENTS OBJECTIVES, GENERALIZATIONS, AND PROCEDURES FOR ACTIVITIES. THE GUIDE SUGGESTS MANY DISCUSSION TOPICS AND ACTIVITIES INVOLVING THE INVESTIGATION OF ENVIRONMENTAL CONDITIONS IN THE VICINITY OF THE SCHOOL. THESE OUTDOOR ACTIVITIES ARE CONCERNED WITH LAND USE, PHYSICAL CHANGE, KINDS OF STREETS, STREET PLANNING, TRAFFIC, STREET MAINTENANCE, STREET DRAINAGE, LOUDNESS OF SOUND, AND SOUNDS, NOISES, AND PEOPLE. (PR)

AVAILABILITY: CONSERVATION AND ENVIRONMENTAL STUDIES CENTER FOR SOUTHERN NEW JERSEY, BOX 2230, RD 2, BROWNS MILLS, N.J. 08015 ($2.00)

INSTITUTION NAME: CONSERVATION AND ENVIRONMENTAL STUDIES CENTER, WHITESBOG, N.J.

ACCESSION NUMBERS: ED045380 SE009857

PUBLICATION DATE: 4 AUG 70

TITLE: A CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION AND ENVIRONMENTAL STUDIES.

PERSONAL AUTHOR: HERSHEY, JOHN T.; AND OTHERS

INSTITUTION CODE: BBB04372

SPONSORING AGENCY CODE: BBB04371

DESCRIPTOR: CONSERVATION EDUCATION; ECOLOGY; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; OUTDOOR EDUCATION; POLLUTION; *SECONDARY SCHOOL SCIENCE; *TEACHING GUIDES; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$2.50 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 641P.

ISSUE: RIEAPR71

THIS ACTIVITY ORIENTED ENVIRONMENTAL GUIDE IS THE RESULT OF COOPERATIVE EFFORTS OF HIGH SCHOOL TEACHERS, STUDENTS, SCIENTISTS, AND TECHNICIANS. THE ACTIVITIES ARE DIVIDED INTO FOUR CHAPTERS: HYDROLOGIC CYCLE; HUMAN ACTIVITIES; ECOLOGICAL PERSPECTIVES; AND SOCIAL AND POLITICAL FACTORS. EACH ACTIVITY CONTAINS SEVEN PARTS: AN INTRODUCTION; QUESTIONS REGARDING THE ACTIVITY; EQUIPMENT; PROCEDURES; RESULTS OBTAINED BY USING THE STUDY; LIMITATIONS AND PROBLEMS ENCOUNTERED WITH THE ACTIVITY; AND AN ANNOTATED BIBLIOGRAPHY. THERE ARE SEVEN APPENDICES AT THE END OF THE GUIDE. THE APPENDIX INCLUDES A DISCUSSION OF WATER QUALITY PARAMETERS, AIDS TO IMPLEMENTATION, SUGGESTIONS REGARDING LIMITATIONS AND INCONVENIENCES, SUGGESTIONS RELATED TO EVALUATION, A BIBLIOGRAPHY, A WATER POLLUTION AND ENVIRONMENTAL GLOSSARY, AND COMMENTS REGARDING LABORATORY AND FIELD SAFETY. (RH)

AVAILABILITY: PHILIP MURPHY, TILTON SCHOOL, TILTON, N.H. 03276 (EST. PR. $5.00-$8.00)

INSTITUTION NAME: TILTON SCHOOL, N.H.

SPONSORING AGENCY NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. FEDERAL WATER QUALITY ADMINISTRATION.

ACCESSION NUMBERS: ED045375 SE009756

PUBLICATION DATE: 70

TITLE: THE SEA, AN INTERDISCIPLINARY APPROACH TO MARINE SCIENCE FOR ELEMENTARY SCHOOL CHILDREN.

PERSONAL AUTHOR: VAIUSO, FRANK

INSTITUTION CODE: BBB02031

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: CONSERVATION EDUCATION; *ELEMENTARY SCHOOL SCIENCE; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *OCEANOLOGY; OUTDOOR EDUCATION; *TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.10

DESCRIPTIVE NOTE: 20P.

ISSUE: RIEAPR71

THIS TEACHER'S GUIDE DEVELOPS AN INTERDISCIPLINARY APPROACH TO MARINE SCIENCE FOR ELEMENTARY SCHOOL CHILDREN. THE LESSONS ARE CONCERNED WITH FOOD CHAINS, INTERDEPENDENCIES, PHYSICAL CHARACTERISTICS, COMPARATIVE DISSECTIONS, AND STUDENT INVOLVEMENT IN POLITICAL ISSUES DEALING WITH WATER AND AIR POLLUTION. FOR EACH ACTIVITY SUGGESTIONS ARE PROVIDED REGARDING OBJECTIVES, MATERIALS NEEDED, PROCEDURE, EVALUATION, AND FOLLOW-UP. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BB)

AVAILABILITY: NEWPORT-MESA UNIFIED SCHOOL DISTRICT, SPACE SCIENCE LEARNING PROGRAM, MRS. FAY HARBISON, 1601 16TH ST., NEWPORT BEACH, CALIF. 92660

INSTITUTION NAME: NEWPORT-MESA UNIFIED SCHOOL DISTRICT, NEWPORT BEACH, CALIF.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED045369 SE009453

PUBLICATION DATE: MAY 70

TITLE: ENVIRONMENTAL SCIENCE CONFERENCE FOR STATE SUPERVISORS OF SCIENCE (PORTLAND STATE UNIVERSITY, PORTLAND, OREGON, MAY 1-5, 1970).

INSTITUTION CODE: BBB03651

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: *CONFERENCE REPORTS; CONSERVATION EDUCATION; *CURRICULUM DEVELOPMENT; ECOLOGY; *ENVIRONMENTAL EDUCATION; *OBJECTIVES; SCIENCE SUPERVISION; *STATE SUPERVISORS

IDENTIFIER: NATIONAL SCIENCE FOUNDATION

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$5.45

DESCRIPTIVE NOTE: 107P.

ISSUE: RIEAPR71

THE CONFERENCE REPORT REVIEWED THE STATUS OF MAN'S ENVIRONMENT AND DRAFTED GUIDELINES FOR STATE EDUCATION AGENCIES TO USE FOR DEVELOPING STATE PROGRAMS RELATED TO ENVIRONMENTAL EDUCATION. THE SIX FEATURED SPEAKERS AND TOPICS WERE: KESSLER CANNON--"REPORT OF THE GOVERNOR'S COMMITTEE ON NATURAL RESOURCES;" DR. HARRY KRAMER--"ENVIRONMENTAL PROBLEMS AND EDUCATION;" DR. DONALD W. STOTLER--"ENVIRONMENTAL EDUCATION AS LIBERATION;" DR. KARL DITTMER--"ENVIRONMENTAL STUDIES AS A BASIS FOR SCIENCE EDUCATION;" DR. JOHN H. THOMAS--"ECOLOGICAL PRINCIPLES AS A PART OF GENERAL EDUCATION;" GEORGE SCHROEDER--"INDUSTRY AND THE ENVIRONMENT." REACTION PANELS AND SMALL GROUP SESSIONS FOLLOWED EACH OF THE MAJOR PRESENTATIONS. GUIDELINES AND CONCLUSIONS RESULTING FROM THE PANEL PRESENTATIONS AND GROUP SESSIONS ARE PRESENTED. (BB)

INSTITUTION NAME: OREGON STATE UNIV., PORTLAND.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED045353 SE009313

PUBLICATION DATE: SEP 68

TITLE: SUGGESTIONS FOR INTEGRATING FORESTRY IN THE MODERN CURRICULUM, A CONSERVATION TEACHING AID.

INSTITUTION CODE: BBB00642

DESCRIPTOR: *CONSERVATION EDUCATION; *CURRICULUM GUIDES; CURRICULUM PLANNING; *ELEMENTARY EDUCATION; *NATURAL RESOURCES; *SECONDARY EDUCATION; TREES

EDRS PRICE: EDRS PRICE MF-$0.25 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 4P.

ISSUE: RIEAPR71

THE ONE-SHEET FOLD-OUT CURRICULUM GUIDE SUGGESTS WAYS A TEACHER COULD INTEGRATE FORESTRY IN THE CURRICULUM. THE GUIDE DEVELOPS AN ELEMENTARY, JUNIOR, AND SENIOR HIGH SCHOOL FORESTRY CURRICULUM AS AFFECTING THE MAJOR FUNCTIONS OR BASIC ACTIVITIES OF MAN. EMPHASIS IS ON INTEGRATING FORESTRY AS A TOPIC IN THE EXISTING CURRICULUM STRUCTURE K-12. (BB)

REPORT NUMBER: FS-62

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (GPO 863-113)

INSTITUTION NAME: FOREST SERVICE (DOA), WASHINGTON, D.C.

ACCESSION NUMBERS: ED044305 SE010133

PUBLICATION DATE: 66

TITLE: INTERDISCIPLINARY OUTDOOR EDUCATION.

INSTITUTION CODE: ZBO90109

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: ART; DRAMA; *ENVIRONMENTAL EDUCATION; *INTEGRATED ACTIVITIES; *INTERDISCIPLINARY APPROACH; LANGUAGE ARTS; NATURAL SCIENCES; *OUTDOOR EDUCATION; *TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 471P.

ISSUE: RIEMAR71

THIS PUBLICATION IS DESIGNED FOR USE IN SEATTLE, WASHINGTON AT THE INTERMEDIATE, JUNIOR HIGH, AND SENIOR HIGH SCHOOL LEVELS. ITS MAIN GOAL IS TO EXTEND THE CLASSROOM INTO THE MUSEUMS, ART GALLERIES, PARKS, RIVERS, MOUNTAINS AND SIMILAR RESOURCES IN SUCH A WAY THAT A WIDE VARIETY OF SUBJECTS CAN INTERACT TO PROVIDE ENRICHING EXPERIENCES. THE EMPHASIS IS ON STUDENT ACTIVITIES IN THESE SUBJECTS: SCIENCE, IN ALL ITS BRANCHES; HISTORY; CIVICS; GEOGRAPHY; ART; CREATIVE WRITING; INDUSTRIAL ARTS; CREATIVE DRAMATICS; HEALTH AND SAFETY; CONSERVATION; MATHEMATICS; AND FOREIGN LANGUAGES. THESE ACTIVITIES ARE INTENDED TO ENHANCE STUDENT UNDERSTANDING OF AND APPRECIATION FOR THE NATURAL ENVIRONMENT AND MAN'S RELATION TO IT, AND INCREASE AWARENESS OF NATURAL BEAUTY AND INTERRELATEDNESS OF SCHOOL SUBJECTS. ACTIVITIES ARE GENERALLY PRESENTED WITH BACKGROUND INFORMATION AND SUGGESTED RESOURCE MATERIALS, CONCEPTS, A LIST OF REQUIRED MATERIALS, AND ACTIVITY INSTRUCTIONS AND SUGGESTIONS, AND A READING LIST. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. COPY NOT AVAILABLE DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT. (PR)

AVAILABILITY: OUTDOOR EDUCATION, SHORELINE SCHOOL DISTRICT NO. 412, NORTHEAST 158TH AND 20TH AVE., N.E., SEATTLE, WASHINGTON 98155 ($2.00)

INSTITUTION NAME: SHORELINE SCHOOL DISTRICT 412, SEATTLE, WASH.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED044299 SE010100

PUBLICATION DATE: 70

TITLE: MAN AND HIS ENVIRONMENT, AN INTRODUCTION TO USING ENVIRONMENTAL STUDY AREAS. NEW DEVELOPMENTS IN TEACHING SERIES NO. 1.

PERSONAL AUTHOR: DORROS, SIDNEY; AND OTHERS

INSTITUTION CODE: FGK01520; FGK56704

DESCRIPTOR: *CONCEPT FORMATION; *CURRICULUM DEVELOPMENT; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *INTERDISCIPLINARY APPROACH; RESOURCE UNITS; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.50 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 58P.

ISSUE: RIEMAR71

BY PRESENTING AN INTERDISCIPLINARY APPROACH TO ENVIRONMENTAL EDUCATION, THIS BOOKLET IS INTENDED TO HELP TEACHERS EXPAND THEIR CLASSROOMS TO INCLUDE ALL OF MAN'S ENVIRONMENT. THROUGH THE USE OF ENVIRONMENTAL STUDY AREAS SELECTED FOR THEIR EDUCATIONAL POTENTIAL, A STUDENT IS ENCOURAGED TO DEVELOP AN AWARENESS OF HIS ENVIRONMENT THAT WILL LEAD TO A PERSONAL SENSE OF INVOLVEMENT AND THE SHAPING OF AN ENVIRONMENTAL ETHIC. THE APPROACH SUGGESTED IN THIS BOOKLET IS THROUGH THE USE OF FIVE CONCEPTS OR "STRANDS" - VARIETY AND SIMILARITY, PATTERNS, INTERACTION AND INTERDEPENDENCE, CONTINUITY AND CHANGE, AND ADAPTATION AND EVOLUTION. INFORMATION IS PROVIDED ON THE BACKGROUND OF ENVIRONMENTAL STUDY AREA PROGRAMS, SUGGESTIONS FOR SELECTING SITES AND PLANNING PROGRAMS, AIDS TO IDENTIFYING THE EDUCATIONAL POSSIBILITIES OF A SITE AND PREPARING LESSONS RELATED TO THEM, A DETAILED DISCUSSION OF THE CONCEPT APPROACH TO ENVIRONMENTAL EDUCATION, SAMPLE CLASS ACTIVITIES BASED ON THE CONCEPT APPROACH, AND SELECTED PUBLICATIONS AND FILMS. (BL)

AVAILABILITY: NATIONAL EDUCATION ASSOC., PUBLICATIONS-SALES SECTION, 1201 16TH ST., N.W., WASHINGTON, D.C. 20036 ($1.75)

INSTITUTION NAME: AMERICAN ASSOCIATION FOR HEALTH, PHYSICAL EDUCATION, AND RECREATION, WASHINGTON, D.C.; NATIONAL EDUCATION ASSOCIATION, WASHINGTON, D.C. ASSOCIATION OF CLASSROOM TEACHERS.

ACCESSION NUMBERS: ED044286 SE009810

PUBLICATION DATE: 70

TITLE: USE OF OUR LAND AND WATER.

INSTITUTION CODE: ZQU44500

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: AREA STUDIES; *ELEMENTARY EDUCATION; *ENVIRONMENT; FILMSTRIPS; *GEOGRAPHY; *INSTRUCTIONAL MATERIALS; LAND USE; RESOURCE MATERIALS; *TEACHING GUIDES; WATER RESOURCES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 42P.

ISSUE: RIEMAR71

INCLUDED ARE A TEACHER'S GUIDE AND TWO FILMSTRIPS FOR GEOGRAPHY INSTRUCTION TO DEVELOP GREATER ENVIRONMENTAL AWARENESS. LESSON PLANS ARE DETAILED FOR AN AREA STUDY EMPHASIZING LAND AND WATER USE. HISTORICAL REVIEWS AND SAMPLES OF CITY MASTER PLANS FOR THE PAST AND PRESENT ARE INCLUDED FOR BACKGROUND INFORMATION. TWO FILMSTRIPS ARE EXPLAINED IN THEIR ENTIRETY, ILLUSTRATING EACH FRAME AND ITS ACCOMPANYING SCRIPT. ADDITIONAL INSTRUCTIONAL MATERIALS AIMED AT THE INTERMEDIATE GRADES INCLUDE REFERENCES TO TEXTBOOKS, MAPS, NEWSPAPER ARTICLES, AND RELATED MATERIALS. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (PR)

AVAILABILITY: VISUAL EDUCATION CONSULTANTS, INC., 2840 LAURA LANE, MIDDLETON, WIS. 53562 ($11.95)

INSTITUTION NAME: MADISON PUBLIC SCHOOLS, WIS.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED044269 SE008956

PUBLICATION DATE: OCT 69

TITLE: A PRIMER ON WASTE WATER TREATMENT.

INSTITUTION CODE: BBB03718

DESCRIPTOR: CHEMISTRY; *ENVIRONMENTAL EDUCATION; *POLLUTION; *RESOURCE MATERIALS; *SANITARY FACILITIES; SANITATION IMPROVEMENT; TECHNOLOGY; *WATER POLLUTION CONTROL; WATER RESOURCES

IDENTIFIER: FEDERAL WATER POLLUTION CONTROL ADMINISTRATION

EDRS PRICE: EDRS PRICE MF-$0.25 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 28P.

ISSUE: RIEMAR71

THIS INFORMATION PAMPHLET IS FOR TEACHERS, STUDENTS, OR THE GENERAL PUBLIC CONCERNED WITH THE TYPES OF WASTE WATER TREATMENT SYSTEMS, THE NEED FOR FURTHER TREATMENT, AND ADVANCED METHODS OF TREATING WASTES. PRESENT DAY POLLUTION CONTROL METHODS UTILIZING PRIMARY AND SECONDARY WASTE TREATMENT PLANTS, LAGOONS, AND SEPTIC TANKS ARE DESCRIBED, ILLUSTRATED, AND EVALUATED. EIGHT CATEGORIES OF POLLUTANTS AFFECTING OUR WATERS ARE GIVEN ACCOMPANIED BY THE EFFECT EACH HAS ON MAN AND THE ENVIRONMENT. WATER RENOVATION TECHNIQUES INVOLVING COAGULATION-SEDIMENTATION, ABSORPTION, ELECTRODIALYSIS, AND THE BLENDING OF TREATED WATER ARE DISCUSSED. IN ADDITION, NEW CHALLENGES FOR WASTE TREATMENT INCLUDING REVERSE OSMOSIS, METHODS OF CHEMICAL OXIDATION, AND THE USE OF POLYMERS ARE INVESTIGATED. THROUGHOUT, PROBLEMS OF WATER POLLUTION CONTROL AND WASTE DISPOSAL ARE PRESENTED TO ILLUSTRATE THE NEED FOR PLANNING, FINANCING, AND BUILDING FACILITIES TO MEET GOVERNMENTAL WATER QUALITY STANDARDS. A GLOSSARY OF COMMON SEWAGE TREATMENT TERMS IS INCLUDED. (BL)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (CAT. NO. 0-335-309, $0.55)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D. C. FEDERAL WATER POLLUTION CONTROL ADMINISTRATION.

ACCESSION NUMBERS: ED044228 RC004836

PUBLICATION DATE: 69

TITLE: GUIDELINES FOR ENVIRONMENTAL SENSITIVITY.

PERSONAL AUTHOR: BENNETT, ELEANOR H.

INSTITUTION CODE: SYN71650

DESCRIPTOR: ADMINISTRATIVE PERSONNEL; *CONSERVATION EDUCATION; CURRICULUM ENRICHMENT; *GUIDES; *OUTDOOR EDUCATION; *PHYSICAL ENVIRONMENT; *POLLUTION; RESOURCES

IDENTIFIER: *PENNSYLVANIA

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.75

DESCRIPTIVE NOTE: 13P.

ISSUE: RIEMAR71

THE DOCUMENT REPRESENTS ONE OF THE EFFORTS OF A SPECIAL ADVISORY COMMITTEE FORMED IN 1966 TO ASSIST THE PENNSYLVANIA DEPARTMENT OF EDUCATION IN FORMULATING WAYS AND MEANS OF DEVELOPING AN AWARENESS OF CONSERVATION PROBLEMS. THE DOCUMENT HAS BEEN DESIGNED TO HELP THE TEACHER CREATE AN INTEREST IN CONSERVATION THAT WILL STAY WITH PUPILS AND ADD MEANING TO THEIR LIVES. OUTDOOR EDUCATION IS DISCUSSED, AND SUGGESTIONS ARE MADE TO HELP TEACHERS DEVELOP PLANS TO FURTHER DESIRABLE ATTITUDES AND UNDERSTANDING AMONG STUDENTS TOWARD THEIR IMMEDIATE AND TOTAL ENVIRONMENT. (EL)

INSTITUTION NAME: PENNSYLVANIA STATE DEPT. OF EDUCATION, HARRISBURG.

ACCESSION NUMBERS: ED043511 SE009752

PUBLICATION DATE: 70

TITLE: ENVIRONMENTAL EDUCATION UNITS.

INSTITUTION CODE: NSD35791

SPONSORING AGENCY CODE: RBB00077

DESCRIPTOR: *EARTH SCIENCE; ELEMENTARY SCHOOL MATHEMATICS; ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; OUTDOOR EDUCATION; *SAMPLING; TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.85

DESCRIPTIVE NOTE: 95P.; REVISED APRIL 3, 1969

ISSUE: RIEFEB71

THE USE OF GAMES TO INTRODUCE ELEMENTARY SCHOOL CHILDREN TO SOME CONCEPTS ABOUT ENVIRONMENTAL FACTORS IS DESCRIBED IN THIS GROUP OF FIVE DOCUMENTS. TEACHING PROCEDURES TO INVESTIGATE WIND, SHADOWS, LIQUIDS, COLORS, AND COLOR CHANGE, AND ASPECTS OF SAMPLING POPULATIONS ARE OUTLINED. SIMPLE APPARATUS AND EXPERIMENTS ARE SUGGESTED, AND DETAILS OF THE CONSTRUCTION AND PREPARATION OF THE MATERIALS ARE GIVEN. THE FOLLOWING IDEAS ARE DEVELOPED: THE NATURE OF DIFFERENT TYPES OF WATER POLLUTANTS DEPENDS UPON PHYSICAL PROPERTIES OF LIQUIDS; COLOR CHANGE CAN BE AN INDEX OF OTHER CHANGES IN ORGANISMS; SHADOWS ARE PREDICTABLE AND RELATED TO MOVEMENTS OF EARTH AND SUN; SHADE HAS EFFECTS ON ORGANISMS; ENVIRONMENTAL FACTORS HAVE AN EFFECT ON WIND SPEED AND DIRECTION; AND FACTORS INFLUENCING THE VALIDITY OF STATISTICAL SAMPLES ARE SAMPLE SIZE, SAMPLE SELECTION, AND SAMPLE NUMBER. OPPORTUNITIES FOR INTERDISCIPLINARY ACTIVITIES ARE MENTIONED, PARTICULARLY THOSE USING MATHEMATICAL SKILLS. BACKGROUND INFORMATION FOR THE TEACHER IS INCLUDED IN ALL UNITS. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (AL)

INSTITUTION NAME: MINNEAPOLIS INDEPENDENT SCHOOL DISTRICT 275, MINN.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED043432 PC004724

PUBLICATION DATE: 69

TITLE: CLASSROOM OUT-OF-DOORS. EDUCATION THROUGH SCHOOL CAMPING.

PERSONAL AUTHOR: SCHRAMM, WILBUR

SPONSORING AGENCY CODE: RRB00430

DESCRIPTOR: *CAMPING; COMMUNITY INVOLVEMENT; CONSERVATION EDUCATION; CURRICULUM ENRICHMENT; *EDUCATIONAL RESOURCES; ENVIRONMENTAL EDUCATION; *GRADE 6; *OUTDOOR EDUCATION; *PROGRAM DESCRIPTIONS

IDENTIFIER: *CALIFORNIA; SAN DIEGO COUNTY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 193P.

ISSUE: RIEFEB71

THE RESOURCE BOOK "CLASSROOM OUT-OF-DOORS," DIVIDED INTO 15 CHAPTERS, PRESENTS A VIEW OF "ONE OF THE LARGEST AND BEST OUTDOOR EDUCATION PROGRAMS IN THE NATION." SINCE 1946, MORE THAN 250,000 SIXTH-GRADE PUPILS HAVE SPENT A WEEK AT ONE OF THE THREE CAMPS PROVIDED BY THE SAN DIEGO COUNTY CAMP COMMISSION. WITH TAPE RECORDER AND CAMERA IN HAND, THE AUTHOR TELLS WHAT HAPPENS AT THE CAMPS. HE HAS INCLUDED SUGGESTIONS AND ANSWERS FOR THE FOLLOWING QUESTIONS (1) WHAT KIND OF TEACHING AND TEACHERS ARE REQUIRED FOR THESE "TRANSPLANTED CLASSROOMS"? (2) WHAT HAPPENS TO A CHILD AS A RESULT OF THE NEW TEACHING APPROACHES? (3) WHAT IS REQUIRED IN THE WAY OF ORGANIZATION AND FINANCIAL SUPPORT? (4) WHAT DOES THE CAMPING PROGRAM MEAN TO THE COMMUNITY? (EJ)

AVAILABILITY: SEQUOIA PRESS/PUBLISHERS, 300 WEST KALAMAZOO AVENUE, KALAMAZOO, MICHIGAN 49006 ($4.95)

SPONSORING AGENCY NAME: KELLOGG FOUNDATION, BATTLE CREEK, MICH.

ACCESSION NUMBERS: ED042686 SO000258

PUBLICATION DATE: MAR 70

TITLE: ENVIRONMENTAL EDUCATION. SECOND EDITION.

PERSONAL AUTHOR: PRATT, JAMES; AND OTHERS

INSTITUTION CODE: FGK02155

DESCRIPTOR: ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; HUMANITIES; PROFESSIONAL ASSOCIATIONS; PROGRAM DESCRIPTIONS; *PROGRAM DEVELOPMENT; *PROJECTS; *RESOURCE GUIDES; *RESOURCE MATERIALS; SECONDARY GRADES; SOCIAL STUDIES

IDENTIFIER: *COMMITTEE ON PUBLIC EDUCATION; COPE

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 144P.

ISSUE: RIEJAN71

THE PURPOSE OF THE AIA-COPE GROUP IN THIS COMPENDIUM IS TO UNITE THE TEACHING AND DESIGN PROFESSIONS IN THEIR EFFORT TO EDUCATE FOR ENVIRONMENTAL AWARENESS. PART ONE INCLUDES SUGGESTIONS TO ARCHITECTS, LANDSCAPE ARCHITECTS, CIVIL ENGINEERS, URBAN AND REGIONAL PLANNERS, AND ECOLOGISTS FOR WORKING WITH PRIMARY AND SECONDARY SCHOOLS, SELF EDUCATION, PROGRAM PLANNING, AND LONG TERM LOCAL PROJECTS. AN ANNOTATED DIRECTORY OF CURRENT PROJECTS LISTS AIA PROJECTS AND PROGRAMS, AND STATE AND COMMUNITY PROJECTS. THE SECOND PART CONTAINS: 1) A SUMMARY OF THE ASSOCIATION GOALS FOR ENVIRONMENTAL EDUCATION, AND 2) A GUIDE TO PROJECTS, KITS, RESOURCE BOOKS FOR THE STUDENT AND TEACHER, PERIODICALS, FILMS AND FILMSTRIPS. THIS PART ALSO HAS A SECTION DESCRIBING SOME INSTRUCTIONAL MATERIALS ACCORDING TO: CONCEPT AND EMPHASIS, MATERIALS, USE, AND ORIGIN. A CLASSIFIED INDEX OF BOTH THE PROJECTS AND THE MATERIALS IS INCLUDED. THE INFORMATION IN THIS RESOURCE GUIDE IS CURRENT AS OF MARCH, 1970. THE LOOSE-LEAF FORMAT FACILITATES INTENDED UPDATING AND EXPANSION. LOAN COPIES ARE AVAILABLE THROUGH MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS, AND LOCAL AND REGIONAL OFFICES. (VLW)

INSTITUTION NAME: AMERICAN INST. OF ARCHITECTS, WASHINGTON, D.C.

ACCESSION NUMBERS: ED042683 SO000254

PUBLICATION DATE: AUG 68

TITLE: REPORT OF A CONFERENCE OF AFRICAN EDUCATORS, EDC AND CREDO ON SOCIAL STUDIES (MOMBASA, KENYA, AUGUST 19-30, 1968).

INSTITUTION CODE: BBB02039; BBB04017

DESCRIPTOR: CITIZENSHIP; COMMUNITY STUDY; CRITICAL THINKING; CULTURAL AWARENESS; CURRICULUM DESIGN; EDUCATIONAL OBJECTIVES; *ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; *INQUIRY TRAINING; INTEGRATED CURRICULUM; INTERDISCIPLINARY APPROACH; INTERNATIONAL EDUCATION; MULTIMEDIA INSTRUCTION; SELF CONCEPT; SOCIAL CHANGE; *SOCIAL DEVELOPMENT; SOCIALIZATION; *SOCIAL STUDIES; SOCIAL VALUES

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.90

DESCRIPTIVE NOTE: 76P.

ISSUE: RIEJAN71

THE CONFERENCE AIMS FOR PRIMARY SCHOOL SOCIAL STUDIES TEACHING ARE: 1) TO CREATE AN AWARENESS AND AN UNDERSTANDING OF THE EVOLVING SOCIAL AND PHYSICAL ENVIRONMENT AS A WHOLE, TOGETHER WITH THE RATIONAL USE AND CONSERVATION OF THESE RESOURCES FOR DEVELOPMENT; 2) TO DEVELOP A CAPACITY TO LEARN AND TO ACQUIRE BASIC SKILLS TOGETHER WITH THE SKILLS OF OBSERVATION, ANALYSIS, INFERENCE, AND CRITICAL THINKING; 3) TO INSURE THE ACQUISITION OF RELEVANT KNOWLEDGE ESSENTIAL FOR PERSONAL AND VALUE DEVELOPMENT; AND, 4) TO DEVELOP AN APPRECIATION OF THE DIVERSITY AND INTERDEPENDENCE OF ALL MEMBERS OF THE LOCAL INTERNATIONAL COMMUNITY. THE MAIN FUNCTIONS OF THE SCHOOL ARE TO PROMOTE THE ACCEPTANCE OF CHANGE AND TO FOSTER THE NOTION OF INDIVIDUAL CONTROL OVER THE ENVIRONMENT. THE SPECIFIC ASPECTS OF CHANGE ARE: NATIONAL INTEGRATION, PROBLEMS OF RAPID ECONOMIC DEVELOPMENT, AND THE PROMOTION OF SELF-CONFIDENCE AND INITIATIVE. IN THIS INTEGRATED INTERDISCIPLINARY APPROACH TO LEARNING, THE TEACHER'S ROLE IS TO PROVIDE EXPERIENCES WHICH WILL PROVOKE QUESTIONS, TO PROVIDE MEDIA, AND TO ASSIST THE INQUIRY PROCESS, CENTERING AROUND LEARNING TECHNIQUES RATHER THAN SUBJECT KNOWLEDGE. OTHER METHODOLOGY INCLUDES: INSERVICE AND PRESERVICE TEACHER EDUCATION, MULTIMEDIA INSTRUCTION, COGNITIVE AND AFFECTIVE TESTING AND EVALUATION, AND CONFERENCE FOLLOWUP. (SBE)

INSTITUTION NAME: CENTER FOR CURRICULUM RENEWAL AND EDUCATIONAL DEVELOPMENT OVERSEAS, LONDON (ENGLAND).; EDUCATIONAL DEVELOPMENT CENTER, INC., NEWTON, MASS.

ACCESSION NUMBERS: ED042682 SE000252

PUBLICATION DATE: 70

TITLE: INTRINSIC SCHOOLING: A NEW YELLOW BRICK ROAD.

PERSONAL AUTHOR: SAMPLES, ROBERT E.

INSTITUTION CODE: EGK01845

SPONSORING AGENCY CODE: EGK57295

DESCRIPTOR: CONCEPT FORMATION; *CURRICULUM DESIGN; CURRICULUM DEVELOPMENT; *EARTH SCIENCE; *ENVIRONMENTAL EDUCATION; INDUCTIVE METHODS; *INQUIRY TRAINING; PHYSICAL SCIENCES; *SELF CONCEPT; SOCIAL STUDIES

IDENTIFIER: *EARTH SCIENCE CURRICULUM PROJECT; ESCP

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.65

DESCRIPTIVE NOTE: 11P.

ISSUE: RIEJAN71

THIS PAPER DESCRIBES ONE PIONEER EFFORT TO DEVELOP MATERIALS FOR TEACHERS WHO OPERATE ON THE PREMISE THAT THE STUDENT CAN LEARN FROM HIS ENVIRONMENT. THREE ENVIRONMENTS ARE CONSIDERED: 1) THE INNER ENVIRONMENT OF THE CHILD; 2) THE IMMEDIATE ENVIRONMENT IN WHICH HE FINDS HIMSELF; AND, 3) THE GLOBAL ENVIRONMENT WHICH IS OF SO MUCH CONCERN TO MANKIND. INSTEAD OF ASKING A STUDENT TO RESPOND TO A TEXTBOOK ABSTRACTION OF HIS ENVIRONMENT, THE STUDENT IS ALLOWED TO CHOOSE THE INVESTIGATIONS WHICH IN TURN WILL SERVE TO STRUCTURE THE COURSE CONTENT. FURTHER, THE STUDENT'S SELF-IMAGE IS ENHANCED BY ALLOWING THE EMOTIONAL SELF TO BE AS APPARENT AS THE LOGICAL AND RATIONAL SELF. IT IS HOPED THAT THE MATERIALS "INVESTIGATING THE EARTH" REFLECT THE NOTION THAT IN TRUE SELF-DIRECTED INQUIRY SITUATIONS STUDENTS HAVE ACCESS TO THE ENTIRE PROCESS OF RESEARCH. FINALLY, AN EARLY PILOT EFFORT WITH INNER-CITY NINTH GRADERS IS DOCUMENTED. THE STUDENTS WERE ASKED TO "GO OUT AND PHOTOGRAPH EVIDENCE OF CHANGE"; THEY THEN HAD TO DECIDE ON THE OPERATIONAL DEFINITION OF CHANGE, WHAT THE EVIDENCE FOR THAT CHANGE WAS, AND PHOTOGRAPH THAT EVIDENCE. (SBE)

JOURNAL CITATION: ENVIRONMENTAL STUDIES PROGRAM NEWSLETTER; N1 P1,4-9 FALL 1970

INSTITUTION NAME: AMERICAN GEOLOGICAL INST., WASHINGTON, D.C.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED042681 SO000251

PUBLICATION DATE: JAN 64

TITLE: INTEGRATING CONSERVATION EDUCATION INTO THE EXISTING CURRICULUM OF THE ANN ARBOR PUBLIC SCHOOL SYSTEM (K-12).

PERSONAL AUTHOR: STAPP, WILLIAM B.

INSTITUTION CODE: MVK02850

DESCRIPTOR: CITIZENSHIP RESPONSIBILITY; *COMMUNITY RESOURCES; *CONSERVATION EDUCATION; *CURRICULUM DESIGN; CURRICULUM EVALUATION; ELEMENTARY GRADES; ENVIRONMENTAL EDUCATION; FIELD TRIPS; *INDUCTIVE METHODS; INSERVICE PROGRAMS; *INTERDISCIPLINARY APPROACH; KINDERGARTEN; PROBLEM SOLVING; SCIENCES; SECONDARY GRADES; SEQUENTIAL PROGRAMS; SOCIAL STUDIES

IDENTIFIER: ANN ARBOR; *OUTDOOR AND CONSERVATION EDUCATION PROGRAM

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$2.35

DESCRIPTIVE NOTE: 45P.

ISSUE: RIEJAN71

THE GUIDING PRINCIPLES INCORPORATED INTO THIS PROGRAM ARE: 1) TO DEVELOP A KINDERGARTEN THROUGH TWELFTH GRADE CURRICULUM IN A LOGICAL SEQUENCE TO PROVIDE CONTINUITY AND PROGRESSION IN THE PROGRAM; 2) TO HAVE THE PROGRAM ENHANCE THE INSTRUCTIONAL GOALS OF THE SCHOOL SYSTEM; 3) TO LINK THE SUBJECT AREAS THAT RELATE MOST CLOSELY TO CONSERVATION, ESPECIALLY SCIENCE AND SOCIAL STUDIES, SO THAT KNOWLEDGE IMPORTANT IN UNDERSTANDING AND SOLVING RESOURCE PROBLEMS IS PROPERLY DEVELOPED; 4) TO GIVE THE LEARNER AN OPPORTUNITY TO STUDY NATURAL RESOURCES OF THE COMMUNITY THROUGH FIELD TRIPS, EMPHASIZING LOCAL RESOURCE PROBLEMS; 5) TO STRESS ATTITUDES AND NOT VOCATIONAL SKILLS WITH THE STUDENT PLAYING AN ACTIVE ROLE IN THE LEARNING PROCESS THROUGH PERSONAL EXPERIENCES AND THINKING; AND, 6) TO PROVIDE A COMPREHENSIVE INSERVICE TEACHER TRAINING PROGRAM FOR THE ENTIRE SCHOOL YEAR. THE DETAILS ARE GIVEN ON PROGRAM DEVELOPMENT AND DESIGN, IMPLEMENTATION, OPERATION, AND EVALUATION, SPECIFICALLY, CURRICULUM THEMES AND OBJECTIVES, RESOURCE SITE SELECTION, TEACHER AND STUDENT ORIENTATION, SCHEDULES, FIELD TRIPS, MATERIALS AND CLASSROOM PRESENTATIONS, AND PROGRAM COORDINATION. (SBE)

INSTITUTION NAME: ANN ARBOR PUBLIC SCHOOLS, MICH.

ACCESSION NUMBERS: ED042654 SE009803

PUBLICATION DATE: MAR 70

TITLE: FIRST REPORT TO THE GOVERNOR AND LEGISLATURE ON CONSERVATION EDUCATION, STATE OF NEW YORK TEMPORARY STATE COMMISSION ON YOUTH EDUCATION IN CONSERVATION.

INSTITUTION CODE: QPX62791

DESCRIPTOR: *CONSERVATION EDUCATION; ECOLOGY; EDUCATIONAL PROGRAMS; *EDUCATIONAL RESOURCES; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL PROGRAMS; *PROGRAM EVALUATION; PUBLIC SUPPORT; *RESOURCE CENTERS

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.75

DESCRIPTIVE NOTE: 33P.

ISSUE: RIEJAN71

INCLUDED IS A REVIEW OF THE CURRENT PROGRAMS FOR TEACHING THE PRINCIPLES OF CONSERVATION IN NEW YORK STATE, AND RECOMMENDATIONS FOR EXTENSION AND DEVELOPMENT OF SUCH PROGRAMS. BOTH THE FEDERAL AND STATE GOVERNMENT AGENCIES INVOLVED IN CONSERVATION EDUCATION ARE CONSIDERED. A SUMMARY IS PRESENTED FOR THE FACILITIES AND PROGRAMS IN CONSERVATION WITHIN THE STATE CONSERVATION DEPARTMENT, STATE EDUCATION DEPARTMENT, COLLEGES AND UNIVERSITIES, AND LOCAL AND REGIONAL ORGANIZATIONS. A PUBLIC HEARING DEVOTED TO CONSERVATION PROBLEMS IS BRIEFLY SUMMARIZED WITH RECOMMENDATIONS FOR NEW PROGRAMS, COURSE CONTENT, RESOURCES AND FACILITIES, AND TEACHER EDUCATION. THE COMMISSION CONCLUDES WITH 11 UNANSWERED QUESTIONS, IMPORTANT FOR FUTURE DEVELOPMENT IN CONSERVATION EDUCATION AND WHICH SUGGEST THE DIRECTION FOR FURTHER STUDY BY THE COMMISSION. BIBLIOGRAPHY. (PR)

INSTITUTION NAME: NEW YORK STATE LEGISLATURE, ALBANY.

ACCESSION NUMBERS: ED042649 SE009796

PUBLICATION DATE: JUN 68

TITLE: SOURCES OF NUCLEAR FUEL, UNDERSTANDING THE ATOM SERIES.

PERSONAL AUTHOR: SINGLETON, ARTHUR L., JR.

INSTITUTION CODE: XIE04840

DESCRIPTOR: ENERGY; *GEOLOGY; INDUSTRIAL TECHNOLOGY; INSTRUCTIONAL MATERIALS; *NATURAL RESOURCES; *NUCLEAR PHYSICS; *RADIATION; *RESOURCE MATERIALS

EDRS PRICE: EDRS PRICE MF-$0.50 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 72P.

ISSUE: RIEJAN71

A BRIEF OUTLINE OF THE HISTORICAL LANDMARKS IN NUCLEAR PHYSICS LEADING TO THE USE OF NUCLEAR ENERGY FOR PEACEFUL PURPOSES INTRODUCES THIS ILLUSTRATED BOOKLET. THE DISTRIBUTION OF KNOWN SOURCES OF URANIUM ORES IS MAPPED AND SOME DETAILS ABOUT THE GEOLOGY OF EACH GEOGRAPHICAL AREA GIVEN. METHODS OF PROSPECTIVE, MINING, MILLING, REFINING, AND FUEL ELEMENT FABRICATION ARE DESCRIBED. METHODS OF RECOVERING WASTE AND PRINCIPLES OF WORKING SAFELY WITH URANIUM ARE OUTLINED. SOME PREDICTIONS ABOUT THE FUTURE OF NUCLEAR FUEL ARE INCLUDED. A GLOSSARY OF TERMS AND A SHORT REFERENCE AND FILM LIST ARE APPENDED. (AL)

AVAILABILITY: U. S. ATOMIC ENERGY COMMISSION, P. O. BOX 62, OAK RIDGE, TENNESSEE 37830 (FREE)

INSTITUTION NAME: ATOMIC ENERGY COMMISSION, OAK RIDGE, TENN. DIV. OF TECHNICAL INFORMATION.

ACCESSION NUMBERS: ED042643 SE009784

PUBLICATION DATE: 70

TITLE: OUTDOOR ACTIVITIES.

INSTITUTION CODE: NSD35791

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: *BIOLOGY; *ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; OUTDOOR EDUCATION; SCIENCE ACTIVITIES; TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.55

DESCRIPTIVE NOTE: 69P.

ISSUE: RIEJAN71

TWENTY-FOUR ACTIVITIES SUITABLE FOR OUTDOOR USE BY ELEMENTARY SCHOOL CHILDREN ARE OUTLINED. ACTIVITIES DESIGNED TO MAKE CHILDREN AWARE OF THEIR ENVIRONMENT INCLUDE SOIL PAINTING, BURR COLLECTING, INSECT AND POND WATER COLLECTING, STUDIES OF INSECT GALLS AND FIELD MICE, SUCCESSION STUDIES, AND A MODEL OF NATURAL SELECTION USING DYED TOOTHPICKS. A GROUP CALLED "INVESTIGATIONS" ARE SIMPLE EXPERIMENTAL STUDIES OF SOIL INHABITANTS, SUCCESSION OF BURNED AREAS, RAILWAY RIGHT-OF-WAY ECOLOGY, THE EFFECTS OF MODIFYING PLANT AND ANIMAL HABITATS, AND FISH BEHAVIOR. THE LAST GROUP OF ACTIVITIES INTRODUCES QUANTITIVE MEASUREMENTS OF SOIL, AND AIR TEMPERATURE, SOIL COMPOSITION, FISH POPULATION DYNAMICS, AND MAPPING. TEACHING HINTS ARE INCLUDED FOR EACH ACTIVITY. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (AL)

INSTITUTION NAME: MINNEAPOLIS INDEPENDENT SCHOOL DISTRICT 275, MINN.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED042640 SE009766

PUBLICATION DATE: 70

TITLE: CONSERVATION UNITS.

INSTITUTION CODE: XPT87150

DESCRIPTOR: *CONSERVATION EDUCATION; *ENVIRONMENTAL EDUCATION; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; INTERDISCIPLINARY APPROACH; *SECONDARY EDUCATION; TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$6.00

DESCRIPTIVE NOTE: 118P.

ISSUE: RIEJAN71

INSTRUCTIONAL UNITS DEAL WITH EACH ASPECT OF CONSERVATION: FORESTS, WILDLIFE, RANGELANDS, WATER, MINERALS, AND SOIL. THE AREA OF THE SECONDARY SCHOOL CURRICULUM WITH WHICH EACH IS CORRELATED IS INDICATED. LISTS OF GENERAL AND SPECIFIC OBJECTIVES ARE FOLLOWED BY SUGGESTED TEACHING PROCEDURES, INCLUDING IDEAS FOR INTRODUCING THE TOPIC, QUESTIONS TO ASK, DEMONSTRATIONS TO PERFORM AND EVALUATION METHODS. WHERE APPROPRIATE, REFERENCES TO BOOKS, PAMPHLETS, CHARTS, FILMS, AND FILMSTRIPS FOR TEACHER REFERENCE OR CLASS USE ARE PROVIDED. SPECIFIC EXAMPLES GIVEN ARE CONCERNED WITH THE TEXAS ENVIRONMENT. (AL)

INSTITUTION NAME: TEXAS EDUCATION AGENCY, AUSTIN.

ACCESSION NUMBERS: ED042639 SE009765

PUBLICATION DATE: 70

TITLE: CONSERVATION UNITS.

INSTITUTION CODE: XPT87150

DESCRIPTOR: *CONSERVATION EDUCATION; *ELEMENTARY EDUCATION; *ENVIRONMENTAL EDUCATION; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; INTERDISCIPLINARY APPROACH; TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$2.35

DESCRIPTIVE NOTE: 45P.

ISSUE: RIEJAN71

EACH OF THE SIX INSTRUCTIONAL UNITS DEALS WITH ONE ASPECT OF CONSERVATION: FORESTS, WATER, RANGELAND, MINERALS (PETROLEUM), AND SOIL. THE AREA OF THE ELEMENTARY SCHOOL CURRICULUM WITH WHICH EACH CORRELATES IS INDICATED. LISTS OF GENERAL AND SPECIFIC OBJECTIVES ARE FOLLOWED BY SUGGESTED TEACHING PROCEDURES, INCLUDING IDEAS FOR INTRODUCING THE TOPIC, QUESTIONS TO ASK, DEMONSTRATIONS TO PERFORM, AND EVALUATION METHODS. WHERE APPROPRIATE, REFERENCE TO BOOKS, PAMPHLETS, CHARTS, FILMS, AND FILMSTRIPS FOR TEACHER REFERENCE OR CLASS USE ARE PROVIDED. SPECIFIC EXAMPLES GIVEN ARE CONCERNED WITH TEXAS SITUATIONS. (AL)

INSTITUTION NAME: TEXAS EDUCATION AGENCY, AUSTIN.

ACCESSION NUMBERS: ED042638 SE009754

PUBLICATION DATE: 70

TITLE: ENVIRONMENTAL EDUCATION UNITS. SOIL SAMPLING. STREAM PROFILES. TREE WATCHING. PLANT PUZZLES.

INSTITUTION CODE: NSD35791

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: BIOLOGY; *EARTH SCIENCE; *ECOLOGY; ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; OUTDOOR EDUCATION; SOIL SCIENCE

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.60

DESCRIPTIVE NOTE: 90P.

ISSUE: RIEJAN71

FIVE OF THESE ELEVEN UNITS DESCRIBE METHODS ELEMENTARY SCHOOL STUDENTS CAN USE WHEN STUDYING SOIL CHARACTERISTICS. SOIL NITROGEN AND WATER HOLDING CAPACITY TESTS ARE INCLUDED WITH TWO TECHNIQUES FOR MEASURING SOIL PH. SURVEY METHODS FOR SOIL ORGANISMS ARE SUGGESTED. THE REMAINING PAMPHLETS DESCRIBE DIVERSE ACTIVITIES ASSOCIATED WITH FIELD ENVIRONMENTAL STUDIES. TECHNIQUES FOR MEASURING SLOPES, DRAWING PROFILES AND CONTOURS AND FOR CALCULATING WATER-SHED RUN OFF ARE DETAILED AND ILLUSTRATED. DETAILED STUDIES OF A SINGLE TREE ARE SUGGESTED TO MAKE CHILDREN AWARE OF INTERDEPENDENCE IN NATURE. AN OUTDOOR ACTIVITY INVESTIGATING MANY INDIVIDUALS OF ONE PLANT SPECIES DESIGNED TO STRESS INDIVIDUAL VARIATION IS DESCRIBED. BACKGROUND INFORMATION FOR THE TEACHER, AND INSTRUCTIONS FOR MAKING SOME OF THE APPARATUS, ARE INCLUDED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (AL)

INSTITUTION NAME: MINNEAPOLIS INDEPENDENT SCHOOL DISTRICT 275, MINN.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED042637 SE009753

PUBLICATION DATE: 70

TITLE: ENVIRONMENTAL EDUCATION UNITS. SUCCESSION IN A MICRO-AQUARIUM. MINNOWS AND MODELS. BRINE SHRIMP.

INSTITUTION CODE: NSD35791

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: BIOLOGY; *ECOLOGY; ELEMENTARY SCHOOL MATHEMATICS; ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.45

DESCRIPTIVE NOTE: 87P.

ISSUE: RIEJAN71

THESE THREE BOOKLETS ARE OUTLINES OF TEACHING PROCEDURES, USING LIVING MATERIAL, DESIGNED FOR ELEMENTARY SCHOOL CHILDREN. WHILE EMPHASIZING SCIENCE, MANY OPPORTUNITIES ARE PROVIDED FOR EXERCISES IN MATHEMATICS, ART, AND WRITING, THUS INTEGRATING THE CURRICULUM. ALL BOOKLETS CONTAIN EXERCISES ON DATA COLLECTION AND ORGANIZATION; TWO HAVE EXERCISES DESIGNED TO GIVE PRACTICE IN ESTIMATING POPULATION SIZES FROM SAMPLES. BRINE SHRIMP ARE USED TO PROVIDE EXPERIENCES WITH LIFE CYCLES AND INTERACTIONS WITH ENVIRONMENTAL FACTORS. MINNOWS PROVIDE DATA NEEDED TO BUILD A MATHEMATICAL MODEL: THE RELATIONSHIP BETWEEN TEMPERATURE AND ACTIVITY. EMPHASIS IS PLACED ON TESTING PREDICTIONS (INTERPOLATED AND EXTRAPOLATED) TO CHECK THE VALIDITY OF THE MODEL. COLLECTION OF POND WATER, AND OBSERVATIONS OF CHANGES IN NUMBERS AND VARIETY OF ORGANISMS IN A MICRO-AQUARIUM IS INTENDED TO MAKE CHILDREN AWARE OF THE GENERAL APPLICABILITY OF THE CONCEPT OF CHANGE IN NATURAL COMMUNITIES. THIS LAST ACTIVITY ALSO INTRODUCES THE NECESSITY FOR SAMPLING UNDER STANDARDIZED CONDITIONS. SOME THEORETICAL BACKGROUND MATERIAL IS INCLUDED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (AL)

INSTITUTION NAME: MINNEAPOLIS INDEPENDENT SCHOOL DISTRICT 275, MINN.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED042636 SE009751

PUBLICATION DATE: 70

TITLE: ENVIRONMENTAL EDUCATION UNITS. PHOTOGRAPHY FOR KIDS. VACANT LOT STUDIES. CONTOUR MAPPING.

INSTITUTION CODE: NSD35791

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: *BIOLOGY; *ECOLOGY; ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; OUTDOOR EDUCATION; SCIENCE ACTIVITIES; TEACHING GUIDES

IDENTIFIER: ELEMENTARY AND SECONDARY EDUCATION ACT TITLE III

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.40

DESCRIPTIVE NOTE: 86P.

ISSUE: RIEJAN71

TECHNIQUES SUITABLE FOR USE WITH ELEMENTARY SCHOOL STUDENTS WHEN STUDYING FIELD ENVIRONMENT ARE DESCRIBED IN THESE FOUR BOOKLETS. TECHNIQUES FOR PHOTOGRAPHY (CONSTRUCTION OF SIMPLE CAMERAS, PRINTING ON BLUEPRINT AND PHOTOGRAPHIC PAPER, USE OF SIMPLE COMMERCIAL CAMERAS, DEVELOPMENT OF EXPOSED FILM); FOR MEASURING MICROCLIMATIC FACTORS (TEMPERATURE, WIND SPEED AND DIRECTION, HUMIDITY, LIGHT INTENSITY, AND SOIL MOISTURE); AND MAPPING (SIMPLE LOCATION OF OBJECTS AND CONTOUR MAPPING) ARE GIVEN. INSTRUCTIONS FOR MAKING THE APPARATUS REQUIRED ARE PROVIDED AND TEACHING STRATEGIES SUGGESTED. ONE OF THE BOOKLETS OUTLINES A SERIES OF ACTIVITIES THAT CAN BE CONDUCTED WHEN STUDYING A VACANT CITY LOT. THIS IS FELT TO BE AN EFFECTIVE WAY OF INTRODUCING BIOLOGICAL PRINCIPLES TO CITY CHILDREN. THE IMPORTANCE OF MAN AS PART OF THE ECOLOGICAL SYSTEM IS EMPHASIZED BY INCLUDING A STUDY OF THE BIOLOGICAL EFFECTS OF TRASH IN THE ENVIRONMENT. ALL BOOKLETS CONTAIN BACKGROUND INFORMATION FOR THE TEACHER, AND SUGGEST WAYS THE ACTIVITIES CAN BE USED TO PROMOTE INTERDISCIPLINARY ACTIVITIES. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (AL)

INSTITUTION NAME: MINNEAPOLIS INDEPENDENT SCHOOL DISTRICT 275, MINN.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED042635 SE009749

PUBLICATION DATE: 70

TITLE: HABITAT STUDY. TRANSECT STUDY. ENVIRONMENTAL EDUCATION UNITS.

INSTITUTION CODE: NSD35791

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: *BIOLOGY; *ECOLOGY; ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; *FIELD TRIPS; INSTRUCTIONAL MATERIALS; *OUTDOOR EDUCATION; TEACHING GUIDES; TEACHING TECHNIQUES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.80

DESCRIPTIVE NOTE: 94P.

ISSUE: RIEJAN71

THESE THREE DOCUMENTS OUTLINE TEACHING ACTIVITIES INTENDED TO INVOLVE CHILDREN WITH THEIR ENVIRONMENT. SUGGESTED PRELIMINARY STUDIES TO MOTIVATE AND FAMILIARIZE ELEMENTARY SCHOOL STUDENTS WITH SOME CHARACTERISTICS OF ORGANISMS AND THEIR PHYSICAL ENVIRONMENT ARE FOLLOWED BY DESCRIPTIONS OF CLASS ACTIVITIES THAT MAY BE UNDERTAKEN IN THE FIELD. SUGGESTIONS FOR CLASSROOM ANALYSIS OF THE DATA AT THE CONCLUSION OF THE STUDY ARE INCLUDED. METHODS OF SAMPLING HABITATS ARE DESCRIBED; THE TRANSECT TECHNIQUE IS RECOMMENDED. SIMPLE TECHNIQUES FOR MEASURING PHYSICAL FACTORS (SUCH AS PRECIPITATION, LIGHT INTENSITY, HUMIDITY, WIND VELOCITY, AND SOIL COMPOSITION AND CHARACTERISTICS) AS WELL AS COLLECTION AND OBSERVATION TECHNIQUES FOR ORGANISMS (PLANTS, SOIL MICRO-ORGANISMS, INVERTEBRATES AND VERTEBRATES) ARE DESCRIBED. DETAILS OF CONSTRUCTION OF ANY APPARATUS REQUIRED ARE INCLUDED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (AL)

INSTITUTION NAME: MINNEAPOLIS INDEPENDENT SCHOOL DISTRICT 275, MINN.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED042634 SE009748

PUBLICATION DATE: 70

TITLE: PLANTS IN THE CLASSROOM. ENVIRONMENTAL EDUCATION UNITS.

INSTITUTION CODE: NSD35791

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: *ECOLOGY; ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; *FINE ARTS; INSTRUCTION; *INSTRUCTIONAL MATERIALS; KINDERGARTEN; *OUTDOOR EDUCATION; TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.40

DESCRIPTIVE NOTE: 66P.

ISSUE: RIEJAN71

THESE FOUR DOCUMENTS ARE CONCERNED WITH METHODS OF INTRODUCING ECOLOGY TO ELEMENTARY AND KINDERGARTEN CHILDREN. THE FIRST DESCRIBES TECHNIQUES FOR USE IN A CLASSROOM INVESTIGATION OF GROWING PLANTS, EMPHASIZING THE INTERRELATIONSHIPS OF PLANTS AND ENVIRONMENT AND IS DESIGNED SO THAT CHILDREN LEARN VARIABLES MUST BE CONTROLLED TO ARRIVE AT VALID CONCLUSIONS. THE SECOND DESCRIBES THE ORGANIZATION OF A "NATURE HUNT" FOR KINDERGARTEN PUPILS. IT IS ARRANGED SO THAT THE CHILD EXPERIENCES MANY AREAS OF THE PRIMARY SCHOOL CURRICULUM, INCLUDING SCIENCE, LANGUAGE ARTS, READING, NUMERAL AWARENESS, SOCIAL STUDIES, SET THEORY, AND MUSIC. THE THIRD OUTLINES METHODS OF USING NATURAL OBJECTS IN ART, INCLUDING PRINTING, CASTING, PHOTOGRAPHY, SOIL AND SAND PAINTING AND WEAVING RUSH MATS. AN ATTEMPT IS MADE TO PRESENT ART ACTIVITIES THAT WILL ALSO BE SCIENCE EXPERIENCES. THE LAST IS A CLASSROOM ACTIVITY TO EMPHASIZE THE EXTENT THAT NON-RETURNABLE AND NON-DECOMPOSABLE CONTAINERS ARE ACCUMULATING IN THE ENVIRONMENT; EACH STUDENT RECORDS THE NUMBER OF CONTAINERS USED IN A WEEK AND THEN AN ESTIMATE IS MADE OF THE AMOUNT THE LOCAL COMMUNITY ACCUMULATES IN A YEAR. SUGGESTIONS FOR APPROPRIATE STUDENT ACTIONS ARE MADE. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (AL)

INSTITUTION NAME: MINNEAPOLIS INDEPENDENT SCHOOL DISTRICT 275, MINN.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBERS: ED042062 AA000600

PUBLICATION DATE: OCT 70

TITLE: ENVIRONMENTAL EDUCATION: SOCIAL STUDIES SOURCES AND APPROACHES.

PERSONAL AUTHOR: HENDERSON, MARTHA T.

DESCRIPTOR: COMMUNITY STUDY; CONSERVATION EDUCATION; *CULTURAL AWARENESS; *ENVIRONMENTAL EDUCATION; HUMANITIES; INDUCTIVE METHODS; INQUIRY TRAINING; INSTRUCTIONAL MATERIALS; INTERDISCIPLINARY APPROACH; *PROJECTS; *RESOURCE MATERIALS; *SOCIAL STUDIES; VALUES

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$2.25

DESCRIPTIVE NOTE: 43P.

ISSUE: RIEJAN71

THE PURPOSE OF THIS PAPER IS TO ALERT ELEMENTARY AND SECONDARY SOCIAL STUDIES TEACHERS TO CERTAIN NEW APPROACHES TO PROJECTS AND MATERIALS IN ENVIRONMENTAL EDUCATION IN THE CONTEXT OF EDUCATION IN GENERAL. IT IS ALSO A GUIDE TO THE USE OF OTHER AVAILABLE PROGRAMS. SELECTIVE RATHER THAN COMPLETE, THE PAPER OFFERS A SAMPLING OF PROGRAMS SOCIAL STUDIES TEACHERS WILL FIND PROVOCATIVE. CATEGORIES COVERED INCLUDE: 1) PROGRAMS WHICH ENCOURAGE INDIVIDUAL INQUIRY AND ALLOW THE CHILD TO EXPLORE AND QUESTION; 2) PROJECTS EMPHASIZING INTERACTION BETWEEN MAN AND HIS ENVIRONMENT, AND THE CULTURAL PATTERNS CONTROLLING MAN'S PERCEPTION OF HIS ENVIRONMENT; 3) PROGRAMS USING THE LOCAL ENVIRONMENT OR COMMUNITY AS AN INTEGRAL PART OF THE STUDY PROGRAM, OFFERING THE DIRECT INVOLVEMENT NEEDED FOR LEARNING "THROUGH" THE ENVIRONMENT; AND, 4) PROGRAMS EMPHASIZING "MAN IN SOCIETY" --THE STUDY OF VALUES, AND RELATED POLITICAL, SOCIAL, ECONOMIC, LEGAL AND ETHICAL IDEAS. (EJW)

ACCESSION NUMBERS: ED041769 SE009324

PUBLICATION DATE: SEP 67

TITLE: AGRICULTURAL SCIENCE PROTECTS OUR ENVIRONMENT.

INSTITUTION CODE: BBB02411

DESCRIPTOR: *AGRICULTURE; BIOLOGY; CONSERVATION EDUCATION; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; PHYSICAL ENVIRONMENT; *POLLUTION; SCIENTIFIC RESEARCH; *SECONDARY SCHOOL SCIENCE

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 12P.

ISSUE: RIEDEC70

INCLUDED ARE A 49 FRAME FILMSTRIP AND A SCRIPT FOR NARRATING A PRESENTATION. THE PRESENTATION IS AIMED AT THE SECONDARY SCHOOL LEVEL WITH AN EMPHASIS ON HOW AGRICULTURAL SCIENTISTS INVESTIGATE PROBLEMS IN FARMLAND EROSION, STREAM POLLUTION, ROAD BUILDING EROSION PROBLEMS, AIR POLLUTION, FARM POLLUTION, PESTICIDES, AND INSECT CONTROL BY BIOLOGICAL METHODS. (BB)

AVAILABILITY: PHOTOGRAPHY DIV., OFFICE OF INFORMATION, U.S.DEPT. OF AGRICULTURE, WASHINGTON, D.C. 20250 (SLIDES,$5.50);PHOTO LAB., INC., 3825 GEORGIA AVE., N.W. WASHINGTON, D.C. 20011 (FILM,$5.50)

INSTITUTION NAME: DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C. AGRICULTURAL RESEARCH SERVICE.

ACCESSION NUMBERS: ED041765 SE009314

PUBLICATION DATE: JAN 70

TITLE: AN OUTLINE FOR TEACHING CONSERVATION IN HIGH SCHOOLS, REVISED EDITION.

INSTITUTION CODE: BBB03961

DESCRIPTOR: CONSERVATION EDUCATION; ECOLOGY; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; OUTDOOR EDUCATION; *SECONDARY EDUCATION; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.25 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 23P.

ISSUE: RIEDEC70

PRESENTED ARE OUTLINES OF SEVENTEEN SEPARATE SCHOOL SUBJECTS RELATED TO CONSERVATION. EACH SUBJECT OUTLINE INCLUDES A GENERAL DISCUSSION, OBJECTIVES, TOPICS FOR STUDY OR DISCUSSION AND SUGGESTED ACTIVITIES FOR THE TEACHER TO INCLUDE IN A UNIT ON CONSERVATION. THE OUTLINE FURNISHES BROAD OBJECTIVES THAT CAN BE USED BY STATE, COUNTY, AND INDEPENDENT SCHOOL SYSTEMS AS GENERAL GUIDES IN DRAWING UP TEACHING PLANS. EACH OUTLINE HAS BEEN ORGANIZED IN A FORM WHICH WILL PERMIT THE TEACHING OF CONSERVATION BY INTERWEAVING THE SUBJECT WITH THE PHYSICAL AND SOCIAL SCIENCES COMMONLY TAUGHT IN AMERICAN HIGH SCHOOLS. WHILE THE ENTIRE FIELD OF NATURAL RESOURCES IS CONSIDERED, EMPHASIS IS ON SOIL AND WATER. (BB)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (CAT. NO. 0-370-987)

INSTITUTION NAME: DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C. SOIL CONVERSATION SERVICE.

ACCESSION NUMBERS: ED041755 SE009208

PUBLICATION DATE: 65

TITLE: MATTER IN MOTION.

PERSONAL AUTHOR: COTTS, ROBERT M.; DETENBECK, ROBERT W.

INSTITUTION CODE: LYR17892

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: *COLLEGE SCIENCE; *CONSERVATION (CONCEPT); ENERGY; *INSTRUCTIONAL MATERIALS; LABORATORY EXPERIMENTS; *MOTION; *PHYSICS; RESOURCE MATERIALS

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.25

DESCRIPTIVE NOTE: 83P.; MONOGRAPH WRITTEN FOR THE CONFERENCE ON THE NEW INSTRUCTIONAL MATERIALS IN PHYSICS (UNIVERSITY OF WASHINGTON, SEATTLE, 1965)

ISSUE: RIEDEC70

THIS MONOGRAPH WAS WRITTEN FOR THE CONFERENCE ON THE NEW INSTRUCTIONAL MATERIALS IN PHYSICS, HELD AT THE UNIVERSITY OF WASHINGTON IN SUMMER, 1965. IT IS INTENDED FOR COLLEGE STUDENTS WHO ARE NOT PREPARING TO BECOME PROFESSIONAL PHYSICISTS. THE MONOGRAPH CONTAINS THREE CHAPTERS. CHAPTER 1 DEALS WITH THE LAW OF INERTIA FOR OBJECTS AT REST AND IN MOTION, THE THEORY OF GALILEAN RELATIVITY AND DEVIATIONS FROM THE LAW OF INERTIA. THE LAW OF MOMENTUM CONSERVATION AND ITS APPLICATIONS ARE DISCUSSED IN CHAPTER 2. IN CHAPTER 3, THE PRINCIPLE OF ENERGY CONSERVATION AND THE CONCEPT OF KINETIC ENERGY ARE DISCUSSED. A NUMBER OF EXPERIMENTS AND PROBLEMS ARE INCLUDED IN EACH CHAPTER. (LC)

INSTITUTION NAME: COMMISSION ON COLL. PHYSICS, COLLEGE PARK, MD.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED040891 SO000068

PROGRAM AREA: 95

PUBLICATION DATE: 69

TITLE: MODEL FOR THE DEVELOPMENT OF INQUIRY-ORIENTED SOCIAL STUDIES CURRICULUM MATERIALS USING COMMUNITY RESOURCES AS LEARNING LABORATORIES. CURRICULUM MODEL #1.

PERSONAL AUTHOR: SEBOLT, ALBERTA P.; CLEGG, AMBROSE A., JR.

INSTITUTION CODE: BBB03777

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: BEHAVIORAL OBJECTIVES; *COMMUNITY RESOURCES; *CONCEPT TEACHING; CURRICULUM DESIGN; ENVIRONMENTAL EDUCATION; EXPERIMENTAL CURRICULUM; FIELD INSTRUCTION; *INQUIRY TRAINING; INSTRUCTIONAL MATERIALS; MEASUREMENT INSTRUMENTS; *MODELS; PROBLEM SOLVING; SEQUENTIAL PROGRAMS; SOCIALIZATION; *SOCIAL STUDIES UNITS

IDENTIFIER: *BLOOMS TAXONOMY OF EDUCATIONAL OBJECTIVES

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.50

DESCRIPTIVE NOTE: 88P.

ISSUE: RIENOV70

IN THE PLANNING PHASE OF THIS ESEA TITLE III PROJECT, A LEARNING UNIT WAS DEVELOPED TO SERVE AS AN OUTLINE FOR THE FIRST DRAFT OF THE MODEL. THE FIELD-LAB APPROACH IS STRESSED IN THE BELIEF THAT THE "REAL WORLD" OFFERS A UNIQUE LEARNING OPPORTUNITY, SINCE IT INCLUDES THE "HOW" OF LIVING AS WELL AS THE INQUIRY PROCESS OF DECISION-MAKING IN THE SELECTION OF SOLUTIONS TO PROBLEMS. THE CURRICULUM CONTENT IS CENTERED AROUND ONE SPECIFIC PROBLEM: HOW DOES MAN PROVIDE FOR AND CONSERVE AN INDISPENSABLE RESOURCE --WATER? THE SCOPE OF INSTRUCTION IS OUTLINED IN TERMS OF SPECIFIC CONCEPTS AND GENERALIZATIONS, AND INSTRUCTIONAL BEHAVIORAL OBJECTIVES. THE INQUIRY TEACHING STRATEGY IS DISCUSSED WITH REFERENCE TO THE COGNITIVE LEVELS OF BLOOM'S TAXONOMY (COGNITIVE AND AFFECTIVE DOMAINS). A TEACHER BACKGROUND BOOKLET PROVIDES DESCRIPTIVE MATERIAL ON THE FIELD-LAB: THE QUABBIN RESERVOIR SYSTEM IN MASSACHUSETTS. BIBLIOGRAPHIES ARE INCLUDED FOR ACTIVITIES, TEACHER RESOURCES, STUDENT BOOKS, AND THE REFERENCES USED IN THE MODEL DEVELOPMENT. THE REVISED VERSION OF THE TEST FOR CONCEPT LEARNING AND IDENTIFICATION OF THE COGNITIVE PROCESS (SO 000 085) IS APPENDED. SO 000 069 AND SO 000 070 DESCRIBE CURRICULUM MODEL #2 AND THE GENERAL R-L-L CURRICULUM MODEL. (SBE)

INSTITUTION NAME: RESOURCE LEARNING LAB., STURBRIDGE, MASS.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

ACCESSION NUMBERS: ED040872 SE008954

PUBLICATION DATE: 70

TITLE: NATURAL RESOURCES BIBLIOGRAPHY.

PERSONAL AUTHOR: HOADLEY, IRENE BRADEN

INSTITUTION CODE: BBB03802

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; ENVIRONMENTAL EDUCATION; *NATURAL RESOURCES; PHYSICAL GEOGRAPHY; RESOURCE MATERIALS; SCIENCES; SOCIAL SCIENCES; TECHNOLOGY

EDRS PRICE: EDRS PRICE MF-$1.00 HC-$12.80

DESCRIPTIVE NOTE: 254P.

ISSUE: RIENOV70

THIS BIBLIOGRAPHY PRESENTS A MODERN DEFINITION OF THE CONCEPTUAL FRAMEWORK FROM WHICH TO VIEW NATURAL RESOURCES, AND AFFORDS ACCESS TO INFORMATION WHICH EXAMINES RESOURCES FROM THE SOCIAL SCIENTISTS POINT OF VIEW. IT PRESENTS FIVE BROAD DIVISIONS OF ACTIVITY OR VARIABLES WHICH INCLUDE (1) NATURAL AND HUMAN RESOURCES, (2) EPISTOMOLOGICAL AND SCIENTIFIC RESOURCES, (3) ECONOMIC AND CULTURAL RESOURCES, (4) ATTITUDINAL DIRECTIONS, AND (5) SELECTED CURRENT ISSUES. IT IS INTERNATIONAL IN SCOPE, AND PROVIDES ACCESS TO INFORMATION AVAILABLE IN EACH DIVISION INCLUDING RESEARCH AND WRITING IN THE FIELD, STATISTICAL DATA, DIRECTORIES, RESEARCH AIDS SUCH AS DICTIONARIES AND HANDBOOKS, AND SPECIAL REFERENCE WORKS INDICATIVE OF THE STATE OF THE ART IN THIS DECADE. (HB)

REPORT NUMBER: OSU-PUB-5

INSTITUTION NAME: OHIO STATE UNIV. LIBRARIES, COLUMBUS.

ACCESSION NUMBERS: ED040783 RC004415

PROGRAM AREA: 88

PUBLICATION DATE: 2 SEP 69

TITLE: TITLE III PROJECT IN OUTDOOR AND CONSERVATION EDUCATION: SCHOOL DISTRICTS, TOWN OF NORTH HEMPSTEAD. PROJECT SUMMARY REPORT.

PERSONAL AUTHOR: SCHMIERER, HY

INSTITUTION CODE: QPX57110

SPONSORING AGENCY CODE: BBB00081

DESCRIPTOR: ADMINISTRATION; *CONSERVATION EDUCATION; CURRICULUM; ECOLOGY; *EVALUATION; *OUTDOOR EDUCATION; PERSONNEL; *PROGRAM DESCRIPTIONS; *RESIDENT CAMP PROGRAMS; SCIENCES

IDENTIFIER: *NEW YORK; NORTH HEMPSTEAD

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.65

DESCRIPTIVE NOTE: 71P.

ISSUE: RIENOV70

THE DOCUMENT CONTAINS PART II, NARRATIVE REPORT FOR END OF BUDGET PERIOD, AND PART III, END OF YEAR EVALUATION REPORT, FOR THE SCHOOL DISTRICTS OF NORTH HEMPSTEAD, NEW YORK. DURING THE PERIOD FROM SEPTEMBER OF 1968 TO SEPTEMBER OF 1969, UNDER FUNDS FROM TITLE III OF THE ELEMENTARY AND SECONDARY EDUCATION ACT, THE NORTH HEMPSTEAD DISTRICTS BEGAN THE THIRD YEAR OF OPERATING THIS PROJECT ON OUTDOOR AND CONSERVATION EDUCATION. THE MAJOR OUTCOME OF THE THIRD YEAR WAS EXPANSION OF THE RESIDENT SCHOOL CAMPING PROGRAM TO INCLUDE MORE STUDENTS AND MORE DISTRICTS. APPROXIMATELY 8700 STUDENTS PARTICIPATED IN AT LEAST 1 OF THE 184 EXPERIENCES PROVIDED FOR THEM DURING THE THIRD YEAR. CURRICULUM EXTENSIONS WERE RECOMMENDED FOR SOCIAL STUDIES, CAMPING SKILLS, MARINE BIOLOGY, ECOLOGY, NATURE STUDY, ASTRONOMY, METEOROLOGY, AND GEOLOGY. A HANDBOOK OF SITES, RECOMMENDED ACTIVITIES, SUITABLE GRADE LEVELS, AND PERTINENT PLANNING INFORMATION WAS DEVELOPED AND DISTRIBUTED. OTHER POSITIVE RESULTS INCLUDED STREAMLINING OF THE OBJECTIVES AND IMPROVED TECHNIQUES OF PROJECT EVALUATION. (BO)

GRANT NUMBER: OEG-1-7-66-2624-0298

INSTITUTION NAME: GREAT NECK PUBLIC SCHOOLS, N.Y.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. DIV. OF PLANS AND SUPPLEMENTARY CENTERS.

ACCESSION NUMBERS: ED040782 RC004413

PUBLICATION DATE: 1 SEP 69

TITLE: BASIC STEPS IN PLANNING RESIDENT OUTDOOR EDUCATION PROGRAMS.

INSTITUTION CODE: BBB03447

DESCRIPTOR: ACTIVITIES; CONSERVATION EDUCATION; CURRICULUM DESIGN; INTERDISCIPLINARY APPROACH; *OUTDOOR EDUCATION; *PLANNING; *PROGRAM DEVELOPMENT; *RESIDENT CAMP PROGRAMS; SCHEDULING; TEACHER ROLE; TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.55

DESCRIPTIVE NOTE: 9P.

ISSUE: RIENOV70

INTENDED TO SERVE AS A PLANNING GUIDE FOR TEACHERS WHO BECOME INVOLVED FOR THE FIRST TIME IN THE RESIDENT CAMPING PHASE OF AN OUTDOOR EDUCATION PROGRAM, THIS DOCUMENT ANSWERS THE QUESTION OF WHERE TO INITIATE THE PLANNING PROCESS AND WHAT SEQUENTIAL FORM THE PROCESS SHOULD FOLLOW. SITE FAMILIARIZATION IS THE FIRST STEP TO BE TAKEN, AND INFORMATION FROM THIS STEP CAN BE USED LATER IN STUDENT-PARENT ORIENTATION. SELECTION AND ORGANIZATION OF THE CURRICULUM COME NEXT AND RELY HEAVILY ON LOCAL RESOURCES AND THE NEEDS OF THE STUDENT WHO SHOULD BE INVOLVED IN THIS STEP. TIME SCHEDULING IS NEXT AND INCLUDES ITEMS WHICH ARE CONSTANT SUCH AS MEALTIMES, ACTIVITY PERIODS FOR THE MAJOR PORTION OF THE DAY, EVENING PROGRAMS, AND INCLEMENT WEATHER PROVISIONS. ORGANIZATION AND SCHEDULING OF STUDENT DUTIES, SUCH AS DINING HALL CHORES AND BUNK CLEANING, COMPLETE THE LIST. A FINAL SUGGESTION IS TO USE CHECKLISTS SO THAT NOTHING WILL BE OVERLOOKED IN PREPARING FOR SMOOTH PROGRAM OPERATION. (BD)

INSTITUTION NAME: NASSAU COUNTY BOARD OF COOPERATIVE EDUCATIONAL SERVICES, JERICHO, N.Y.

ACCESSION NUMBERS: ED040079 SE008805

PUBLICATION DATE: 68

TITLE: OUTDOOR EDUCATION IN OREGON SCHOOLS.

INSTITUTION CODE: SJJ69450

DESCRIPTOR: BIOLOGY; *CONSERVATION EDUCATION; EARTH SCIENCE; ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; NATURAL RESOURCES; *OUTDOOR EDUCATION; *SCIENCE ACTIVITIES; *TEACHING GUIDES

IDENTIFIER: OREGON

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$6.40

DESCRIPTIVE NOTE: 126P.

ISSUE: RIEOCT70

THIS HANDBOOK IS DESIGNED TO HELP CLASSROOM TEACHERS TO DEVELOP OUTDOOR EDUCATION PROGRAMS. DISCUSSED ARE THE PLACE OF OUTDOOR EDUCATION IN THE CURRICULUM, AND THE PROVISION AND USE OF OUTDOOR AREAS. THE SECTION "WHAT TO DO AND WHAT TO LOOK FOR" GIVES MANY SUGGESTIONS FOR STUDENT ACTIVITIES UDER THE HEADINGS "LAND OR TERRESTRIAL COMMUNITIES," "AQUATIC COMMUNITIES," "COSTAL COMMUNITIES," "PROJECTS OF LONGER DURATION," AND "MEASUREMENT EXPERIENCES." ILLUSTRATED INSTRUCTIONS ARE GIVEN FOR CONSTRUCTING SIMPLE EQUIPMENT. APPENDED ARE GUIDELINES FOR THE ESTABLISHMENT OF OUTDOOR PROGRAMS, AND A STATEMENT OF PHILOSOPHY OF EDUCATION FOR OREGON SCHOOLS. (EB)

INSTITUTION NAME: OREGON STATE DEPT. OF EDUCATION, SALEM.

ACCESSION NUMBERS: ED040068 SE008736

PUBLICATION DATE: 70

TITLE: HUNGER, A SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION WORKBOOK.

PERSONAL AUTHOR: MEAD, MARGARET

INSTITUTION CODE: BBB03688

DESCRIPTOR: *AGRICULTURAL PRODUCTION; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; LIVING STANDARDS; *NUTRITION; POLLUTION; *POPULATION GROWTH; PUBLIC HEALTH; REFERENCE MATERIALS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 36P.

ISSUE: RIEOCT70

THE FIRST SECTION OF THIS WORKBOOK GIVES DATA ON HUNGER AND MALNUTRITION IN THE UNITED STATES, AND OUTLINES IMMEDIATE COMMUNITY AND NATIONAL ACTION NEEDED TO MEET THE EMERGENCY AND PROVIDE AGAINST ITS RECURRENCE. THE SECOND SECTION DISCUSSES PROBLEMS OF WORLD FOOD SUPPLY, SPREADING TECHNOLOGY, THE POPULATION EXPLOSION, AND THE HANDLING OF AGRICULTURAL SURPLUSES. THE THIRD DEALS WITH SCIENTIFIC AND SOCIAL QUESTIONS. ONE ARTICLE ARGUES THAT FOOD SUPPLY IS NOT THE BEST DETERMINANT OF OPTIMUM POPULATION SIZE, OTHERS DISCUSS THE EFFECT OF FERTILIZERS ON THE ECOSYSTEM, INCREASING FOOD YIELDS FROM SALTY SOIL, AND THE EFFECTS OF INFANT MALNUTRITION ON ADULT LEARNING. EACH SECTION INCLUDES AN ANNOTATED BIBLIOGRAPHY. (EB)

AVAILABILITY: SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION, 30 EAST 68TH ST., NEW YORK, N. Y. 10021 ($2.00)

INSTITUTION NAME: SCIENTISTS' INST. FOR PUBLIC INFORMATION, NEW YORK, N. Y.

ACCESSION NUMBERS: ED040067 SE008735

PUBLICATION DATE: 70

TITLE: NUCLEAR EXPLOSIVES IN PEACETIME, A SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION WORKBOOK.

PERSONAL AUTHOR: BRODINE, VIRGINIA, ED.; BRADFORD, ALBERT, ED.

INSTITUTION CODE: BBB03689

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *POLLUTION; *RADIATION EFFECTS; REFERENCE MATERIALS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 32P.

ISSUE: RIEOCT70

DISCUSSED ARE THE COMMERCIAL USES OF NUCLEAR EXPLOSIVES AS WELL AS THE TESTING OF NUCLEAR WEAPONS. CASE HISTORIES OF THE USE OF NUCLEAR EXPLOSIVES TO STIMULATE OIL AND NATURAL GAS PRODUCTION ARE EXAMINED, AND PROBLEMS ASSOCIATED WITH NUCLEAR BLASTING ARE DISCUSSED WITH SPECIAL REFERENCE TO CANAL CONSTRUCTION. EFFECTS OF NUCLEAR WEAPONS TESTING ARE DISCUSSED UNDER THE HEADING OF "RADIATION HAZARDS" AND "SEISMIC HAZARDS." SAFETY PRECAUTIONS AND SAFETY STANDARDS ARE DESCRIBED. THE NEED FOR ADEQUATE INFORMATION TO BE PROVIDED TO THE PUBLIC IS STRESSED. A SHORT ANNOTATED BIBLIOGRAPHY IS INCLUDED. (EB)

AVAILABILITY: SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION, 30 EAST 68TH ST., NEW YORK, N. Y. 10021 ($2.00)

INSTITUTION NAME: SCIENTISTS' INST. FOR PUBLIC INFORMATION, NEW YORK, N. Y.

ACCESSION NUMBERS: ED040066 SE008734

PUBLICATION DATE: 70

TITLE: ENVIRONMENTAL EFFECTS OF WEAPONS TECHNOLOGY, A SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION WORKBOOK.

PERSONAL AUTHOR: MCCLINTOCK, MICHAEL; AND OTHERS

INSTITUTION CODE: BBB03688

DESCRIPTOR: BIBLIOGRAPHIES; *ECOLOGY; *ENVIRONMENTAL EDUCATION; HERBICIDES; INSTRUCTIONAL MATERIALS; *POLLUTION; REFERENCE MATERIALS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 34P.

ISSUE: RIEOCT70

THIS COLLECTION OF ARTICLES INCLUDES A GENERAL ACCOUNT OF THE ENVIRONMENTAL EFFECTS OF MODERN WEAPONS TECHNOLOGY, A SELECTION OF NEWS REPORTS DEMONSTRATING THE PEACETIME HAZARDS OF CHEMICAL AND BIOLOGICAL WEAPONS, DATA ON THE PHYSIOLOGICAL EFFECTS OF THE MOST COMMON CHEMICAL WEAPONS, A DISCUSSION OF THE HAZARDS OF BIOLOGICAL WEAPONS, A REPORT OF AN INTERVIEW WITH TWO SCIENTISTS WHO HAD VISITED VIETNAM, A PAPER SUGGESTING THAT HERBICIDES (USED IN VIETNAM) MAY CAUSE BIRTH MALFORMATIONS, EXCERPTS FROM TESTIMONIES BEFORE CONGRESSIONAL COMMITTEES ON CHEMICAL AND BIOLOGICAL WARFARE, AND EXCERPTS FROM UNITED NATIONS REPORTS. A SHORT ANNOTATED BIBLIOGRAPHY IS INCLUDED. (EB)

AVAILABILITY: SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION, 30 EAST 68TH ST., NEW YORK, N. Y. 10021 ($2.00)

INSTITUTION NAME: SCIENTISTS' INST. FOR PUBLIC INFORMATION, NEW YORK, N. Y.

ACCESSION NUMBERS: ED040065 SE008733

PUBLICATION DATE: 70

TITLE: WATER POLLUTION, A SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION WORKBOOK.

PERSONAL AUTHOR: BERG, GEORGE G.

INSTITUTION CODE: BBB03688

DESCRIPTOR: *CONSERVATION EDUCATION; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *POLLUTION; PUBLIC HEALTH; REFERENCE MATERIALS; *WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 36P.

ISSUE: RIEOCT70

ANALYZED ARE THE REASONS WHY PRESENT MECHANISMS FOR THE CONTROL OF WATER PURITY ARE INADEQUATE. THE CONTROL OF WATERBORNE EPIDEMICS IS DISCUSSED TO ILLUSTRATE A PROBLEM WHICH HAS BEEN SOLVED, THEN DEGRADATION OF THE ENVIRONMENT IS PRESENTED AS AN UNSOLVED PROBLEM. CASE HISTORIES ARE GIVEN OF POLLUTION AND ATTEMPTS AT CONTROL IN RIVERS, LAKES, GROUND WATERS, ESTUARIES AND OCEANS. SUGGESTIONS ARE MADE FOR MANAGEMENT OF WATER RESOURCES. THE IMPORTANCE OF PROVIDING THE PUBLIC WITH ADEQUATE INFORMATION IS EMPHASIZED. A SHORT BIBLIOGRAPHY IS INCLUDED. (EB)

AVAILABILITY: SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION, 30 EAST 68TH ST., NEW YORK, N. Y. 10021 ($2.00)

INSTITUTION NAME: SCIENTISTS' INST. FOR PUBLIC INFORMATION, NEW YORK, N. Y.

ACCESSION NUMBERS: ED040054 SE008732

PUBLICATION DATE: 70

TITLE: PESTICIDES, A SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION WORKBOOK.

PERSONAL AUTHOR: DAHLSTEN, DONALD L.; AND OTHERS

INSTITUTION CODE: BBB03688

DESCRIPTOR: *AGRICULTURAL PRODUCTION; *ECOLOGY; ECONOMICS; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *PESTICIDES; *POLLUTION; PUBLIC HEALTH; REFERENCE MATERIALS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 28P.

ISSUE: RIEOCT70

THIS COLLECTION OF ARTICLES EMPHASIZES THE NEED FOR CARE IN THE USE OF CHEMICAL PESTICIDES. ECONOMIC AND ECOLOGICAL IMPLICATIONS OF PEST CONTROL ARE DISCUSSED, AND DATA ARE GIVEN ON THE EFFECTIVENESS AND SIDE EFFECTS OF CHEMICAL INSECTICIDES. ALTERNATIVE METHODS OF CONTROL ARE PROPOSED. THE PART THAT CAN BE PLAYED BY THE PUBLIC IN DECISION MAKING IS DISCUSSED. A SHORT ANNOTATED BIBLIOGRAPHY IS INCLUDED. (EB)

AVAILABILITY: SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION, 30 EAST 68TH ST., NEW YORK, N. Y. 10021 ($2.00)

INSTITUTION NAME: SCIENTISTS' INST. FOR PUBLIC INFORMATION, NEW YORK, N. Y.

ACCESSION NUMBERS: ED040063 SE008731

PUBLICATION DATE: 70

TITLE: ENVIRONMENTAL COST OF ELECTRIC POWER, A SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION WORKBOOK.

PERSONAL AUTHOR: ABRAHAMSON, DEAN E.

INSTITUTION CODE: BBB03688

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *FUELS; INSTRUCTIONAL MATERIALS; *NATURAL RESOURCES; *POLLUTION; PUBLIC HEALTH; REFERENCE MATERIALS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 40P.

ISSUE: RIEOCT70

ANALYZED ARE THE ENVIRONMENTAL AND HEALTH HAZARDS ASSOCIATED WITH DIFFERENT FORMS OF POWER PRODUCTION: NUCLEAR POWER PLANTS, FOSSIL FUEL PLANTS, AND HYDROELECTRIC PLANTS. DATA ARE GIVEN RELATING TO CHEMICAL POLLUTION, THERMAL POLLUTION, RADIOACTIVE HAZARDS AND GEOLOGICAL AND GEOGRAPHICAL EFFECTS. PROBLEMS OF SETTING STANDARDS, AND CRITERIA WHICH SHOULD BE CONSIDERED WHEN CHOOSING PLANT SITES ARE DISCUSSED. IT IS ARGUED THAT ENERGY PRODUCTION MUST BE CONTROLLED AND REDESIGNED, AND THAT THE PUBLIC MUST BE INVOLVED IN DECISIONS ABOUT POWER USAGE AND PRODUCTION. AN ANNOTATED BIBLIOGRAPHY IS INCLUDED. (EB)

AVAILABILITY: SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION, 30 EAST 68TH ST., NEW YORK, N. Y. 10021 ($2.00)

INSTITUTION NAME: SCIENTISTS' INST. FOR PUBLIC INFORMATION, NEW YORK, N. Y.

ACCESSION NUMBERS: ED040052 SE008730

PUBLICATION DATE: 70

TITLE: AIR POLLUTION, A SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION WORKBOOK.

PERSONAL AUTHOR: NADLER, ALLEN A.; AND OTHERS

INSTITUTION CODE: BBB03688

DESCRIPTOR: *AIR POLLUTION CONTROL; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *POLLUTION; PUBLIC HEALTH; REFERENCE MATERIALS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 32P.

ISSUE: RIEOCT70

DOCUMENTATION IS GIVEN ON THE KNOWN AND POTENTIAL EFFECTS OF AIR POLLUTION ON HUMAN HEALTH, WEATHER CONDITIONS, AND BIOSPHERE. PRACTICAL APPLICATIONS OF THIS INFORMATION ARE DISCUSSED, WITH SPECIAL REFERENCE TO THE FEDERAL AIR QUALITY ACT AND TO THE PLANNING OF URBAN EXPRESSWAYS. PROBLEMS IN DEFINING STANDARDS OF AIR QUALITY ARE DISCUSSED. SPECIFIC REFERENCES ARE GIVEN, AND A SHORT ANNOTATED BIBLIOGRAPHY IS INCLUDED. (EB)

AVAILABILITY: SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION, 30 EAST 68TH ST., NEW YORK, N. Y. 10021 ($2.00)

INSTITUTION NAME: SCIENTISTS' INST. FOR PUBLIC INFORMATION, NEW YORK, N. Y.

ACCESSION NUMBERS: ED039979 RC004380

PUBLICATION DATE: 67

TITLE: A PROPOSED INTERDISCIPLINARY APPROACH TO AN OUTDOOR EDUCATION PROGRAM IN THE PROFESSIONAL TEACHER PREPARATION CURRICULUM AT WEBER STATE COLLEGE.

PERSONAL AUTHOR: RHEAD, RAYMOND ELMO

DESCRIPTOR: *COLLEGE PROGRAMS; EDUCATIONAL OBJECTIVES; *INTERDISCIPLINARY APPROACH; NATURAL RESOURCES; *OUTDOOR EDUCATION; *PROGRAM DEVELOPMENT; RESEARCH NEEDS; *TEACHER EDUCATION CURRICULUM

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 155P.; DOCTOR'S DISSERTATION SUBMITTED TO UNIVERSITY OF UTAH, SALT LAKE CITY

ISSUE: RIEOCT70

TO ASSIST IN THE DEVELOPMENT OF AN INTERDISCIPLINARY APPROACH TO AN OUTDOOR EDUCATION PROGRAM IN THE TEACHER PREPARATION CURRICULUM AT WEBER STATE COLLEGE, OUTDOOR EDUCATION PROGRAMS IN 50 COLLEGES AND UNIVERSITIES IN THE WESTERN UNITED STATES WERE SURVEYED. EIGHTEEN OFFERED AN OUTDOOR EDUCATION PROGRAM, 7 UTILIZED AN OUTDOOR TEACHER EDUCATION PROGRAM, 6 REQUIRED STUDENT TEACHERS TO PARTICIPATE IN AN OUTDOOR RESIDENT SCHOOL, AND 20 WERE PLANNING TO OFFER AN OUTDOOR TEACHER EDUCATION PROGRAM. SINCE IT WAS CONCLUDED THAT WEBER STATE COLLEGE HAD MOST OF THE RESOURCES IN LEADERSHIP AND NATURAL OUTDOOR SURROUNDINGS, A PROPOSED INTERDISCIPLINARY APPROACH TO AN OUTDOOR TEACHER EDUCATION PROGRAM WAS FORMULATED, SUBMITTED TO A JURY OF EXPERTS FOR APPROVAL, AND REVISED. CONCLUSIONS ABOUT OUTDOOR EDUCATION PROGRAMS, MATERIALS, AND RESEARCH FINDINGS ARE PRESENTED ALONG WITH RECOMMENDATIONS RELATING SPECIFICALLY TO THE PROPOSED OUTDOOR TEACHER EDUCATION PROGRAM AT WEBER STATE COLLEGE. (JH)

AVAILABILITY: UNIVERSITY MICROFILMS, INC., 300 NORTH ZEEB ROAD, ANN ARBOR, MICHIGAN 48106 (ORDER NO. 67-11,687, MICROFILM $3.00, XEROGRAPHY $7.20)

ACCESSION NUMBERS: ED039138 SE008339

PUBLICATION DATE: 16 FEB 70

TITLE: POPULATION STUDIES: A MULTIDISCIPLINARY CONCERN.

PERSONAL AUTHOR: ARNSDORF, VAL

INSTITUTION CODE: EYV20850

DESCRIPTOR: *CURRICULUM DEVELOPMENT; *ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *INTERDISCIPLINARY APPROACH; *POPULATION GROWTH; SECONDARY SCHOOL SCIENCE; *SOCIAL STUDIES; TEACHER EDUCATION; TEACHING TECHNIQUES

EDRS PRICE: EDRS PRICE MF-$0.25 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 10P.

ISSUE: RIESEP70

FOCUSING ON THE INTERACTION BETWEEN POPULATION GROWTH AND THE QUALITY OF MAN'S ENVIRONMENT, SUGGESTIONS ARE MADE FOR AN INTERDISCIPLINARY APPROACH TO TEACHING CONCEPTS AND APPROPRIATE ANALYTIC TOOLS AND ATTITUDES FOR SOLVING RELATED PROBLEMS. AN OUTLINE OF A KINDERGARTEN THROUGH TWELFTH GRADE PLAN FOR TEACHING NUTRITION IS GIVEN AS AN EXAMPLE. SUGGESTIONS ARE MADE FOR TEACHER PREPARATION, INSTRUCTIONAL MATERIALS, AND TEACHING PROCESSES. NOT AVAILABLE IN HARDCOPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT. (EB)

INSTITUTION NAME: DELAWARE UNIV., NEWARK.

ACCESSION NUMBERS: ED039136 SE008337

PUBLICATION DATE: 16 FEB 70

TITLE: A COMPREHENSIVE POPULATION EDUCATION PROJECT.

PERSONAL AUTHOR: STEGNER, ROBERT W.

INSTITUTION CODE: EYV20850

DESCRIPTOR: *CONSERVATION EDUCATION; COURSE CONTENT; *CURRICULUM DEVELOPMENT; ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; INTERDISCIPLINARY APPROACH; NATURAL SCIENCES; *POPULATION GROWTH; SECONDARY SCHOOL SCIENCE; SOCIAL SCIENCES

EDRS PRICE: EDRS PRICE MF-$0.25 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 8P.

ISSUE: RIESEP70

THE DEVELOPMENT OF A POPULATION STUDIES PROGRAM IS DESCRIBED. QUESTIONS INDICATING THE CONTENT OF THE PROGRAM ARE LISTED; THESE RELATE TO HUMAN POPULATION, HUMAN NEEDS, THE ENVIRONMENT, AND PROBLEMS RAISED BY THE INTERRELATIONSHIPS OF THESE FACTORS. PREPARATION OF MATERIALS WAS UNDERTAKEN BY CURRICULUM SPECIALISTS IN NATURAL SCIENCES AND SOCIAL SCIENCES, AND ABOUT SIXTY EXPERIENCED TEACHERS AND ADMINISTRATORS. MATERIALS TO BE COMPLETED BY SUMMER 1970 ARE DESCRIBED. AN OUTLINE OF THE APPROACH TO THE DEVELOPMENT OF THE CONCEPT "NUTRITION" FROM KINDERGARTEN THROUGH TWELFTH GRADE IS INCLUDED. THE PROGRAM OF A SERIES OF LECTURES ARRANGED FOR THE CURRICULUM DEVELOPMENT GROUP IS APPENDED. NOT AVAILABLE IN HARDCOPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT. (EB)

INSTITUTION NAME: DELAWARE UNIV., NEWARK.

ACCESSION NUMBERS: ED039064 RC004320

PUBLICATION DATE: 69

TITLE: RESOURCE GUIDE FOR ACT IN TIME: ART AND CONSERVATION TEACHING TO IMPROVE MAN'S ENVIRONMENT.

INSTITUTION CODE: BBB03565

SPONSORING AGENCY CODE: BBB00427

DESCRIPTOR: ART ACTIVITIES; *ART EDUCATION; *CONSERVATION EDUCATION; *ENVIRONMENTAL EDUCATION; FREEHAND DRAWING; *INSTRUCTIONAL INNOVATION; NATURAL RESOURCES; OUTDOOR EDUCATION; PAINTING; *RESOURCE GUIDES; TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.00

DESCRIPTIVE NOTE: 18P.

ISSUE: RIESEP70

THE PURPOSE OF THISE RESOURCE GUIDE IS TO ASSIST THE TEACHER IN USING ART EXPERIENCES TO DEVELOP STUDENT AWARENESS OF THE NECESSITY OF PREVENTING FURTHER DESTRUCTION OF THE NATION'S NATURAL RESOURCES. TOPICS ARE GROUPED UNDER 7 HEADINGS: (1) PURPOSE OF THE GUIDE; (2) FACTS AND PREDICTIONS CONCERNING CRISES IN MAN'S ENVIRONMENT; (3) CREATIVE EXPRESSION; (4) DESIGN AND COMPOSITION; (5) CONCEPTS, IDEAS, AND SUGGESTIONS FOR TITLES OF ILLUSTRATIONS; (6) ACT IN TIME FOR THE ELEMENTARY SCHOOL; AND (7) ACT IN TIME FOR THE SECONDARY SCHOOL. IN ADDITION, SOURCES OF FILMS AND FILMSTRIPS ON CONSERVATION AND NATURAL RESOURCES ARE LISTED. A CONSERVATION EDUCATION BIBLIOGRAPHY IS ALSO INCLUDED. (TL)

INSTITUTION NAME: INDIANA STATE OFFICE OF THE STATE SUPERINTENDENT OF PUBLIC INSTRUCTION, INDIANAPOLIS.

SPONSORING AGENCY NAME: SEARS-ROEBUCK FOUNDATION, SKOKIE, ILL.

ACCESSION NUMBERS: ED038507 VT010509

PUBLICATION DATE: 70

TITLE: A DESCRIPTION AND SOURCE LISTING OF CURRICULUM MATERIALS IN AGRICULTURAL EDUCATION, 1969-1970.

INSTITUTION CODE: BBB01335

DESCRIPTOR: *AGRICULTURAL EDUCATION; AGRICULTURAL ENGINEERING; AGRICULTURAL OCCUPATIONS; AGRONOMY; ANIMAL SCIENCE; *ANNOTATED BIBLIOGRAPHIES; FARM MANAGEMENT; FIELD CROPS; FORESTRY; HORTICULTURE; *INFORMATION SOURCES; *INSTRUCTIONAL MATERIALS; SOIL SCIENCE

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.55

DESCRIPTIVE NOTE: 29P.

ISSUE: RIEAUG70

THE PURPOSE OF THIS ANNOTATED BIBLIOGRAPHY IS TO PROVIDE TEACHERS OF VOCATIONAL AGRICULTURE, AGRICULTURAL SUPERVISORS, AND AGRICULTURAL TEACHER EDUCATORS WITH INFORMATION ON CURRENT CURRICULUM MATERIALS AVAILABLE TO THEM. CLASSIFIED ACCORDING TO THE AGDEX FILING SYSTEM, THE 163 REFERENCES ARE GROUPED UNDER THE HEADINGS: (1) FIELD CROPS, (2) HORTICULTURE, (3) FORESTRY, (4) ANIMAL SCIENCE, (5) SOILS, (6) DISEASES AND PESTS, (7) AGRICULTURAL ENGINEERING, (8) AGRICULTURAL ECONOMICS, (9) AGRICULTURAL OCCUPATIONS, AND (10) PROFESSIONAL. THE AVAILABILITY AND PRICE OF EACH REFERENCE IS SPECIFIED IN THE ANNOTATION. (AW)

AVAILABILITY: VOCATIONAL AGRICULTURE SERVICE, 434 MUMFORD HALL, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS 61801

INSTITUTION NAME: AMERICAN VOCATIONAL ASSOCIATION, WASHINGTON, D.C. AGRICULTURAL DIV.

ACCESSION NUMBERS: ED038312 SE008273

PUBLICATION DATE: 70

TITLE: THE STATUS OF WISCONSIN HIGH SCHOOL CONSERVATION COURSES. INST:ZOU97875

PERSONAL AUTHOR: ENGLESON, DAVID C.

DESCRIPTOR: *CONSERVATION EDUCATION; *COURSE CONTENT; *CURRICULUM; ENVIRONMENTAL EDUCATION; NATURAL RESOURCES; *SECONDARY SCHOOL SCIENCE; *STATE SURVEYS; TEACHER BACKGROUND

IDENTIFIER: WISCONSIN

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.15

DESCRIPTIVE NOTE: 21P.

ISSUE: RIEAUG70

A SURVEY WAS CONDUCTED AMONG SENIOR HIGH SCHOOLS IN WISCONSIN WHICH WERE REPORTED TO BE OFFERING COURSES IN THE CONSERVATION OF NATURAL RESOURCES. SEVENTY-TWO QUESTIONNAIRES WERE MAILED TO TEACHERS IDENTIFIED BY ADMINISTRATORS AS "CONSERVATION TEACHERS". QUESTIONNAIRES RETURNED PROVIDED DATA ON FIFTY-TWO TEACHERS AND 2,681 STUDENTS. DATA REPORTED RELATE TO THE ACADEMIC PREPARATION OF TEACHERS, OTHER COURSES TAUGHT BY TEACHERS, STUDENT ABILITY LEVELS, COURSE ORGANIZATION IN THE SCHOOLS, TOPICS COVERED, READING MATERIALS USED, USE OF FIELD SITES, FIELD TRIPS, AND INDIVIDUAL STUDENT FIELD ACTIVITIES, AND TYPES OF WRITTEN ASSIGNMENTS. THE DISCUSSION OF THE DATA POINTS UP MANY INADEQUACIES IN THE PROGRAMS; AND RELEVANCE TO THE STUDENTS INVOLVED. RECOMMENDATIONS ARE MADE FOR IMPROVEMENT. (EB)

ACCESSION NUMBERS: ED038320 SE008323

PUBLICATION DATE: 70

TITLE: THE EFFECT OF INSTRUCTION ON THE ACQUISITION OF CONSERVATION OF VOLUME.

PERSONAL AUTHOR: BUTTS, DAVID P.; HOWE, ANN C.

INSTITUTION CODE: BBB00950; XPT87600

DESCRIPTOR: COGNITIVE DEVELOPMENT; *CONCEPT FORMATION; *CONSERVATION (CONCEPT); *ELEMENTARY SCHOOL SCIENCE; *INSTRUCTION; INTELLECTUAL DEVELOPMENT; *LEARNING

IDENTIFIER: PIAGET

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.65

DESCRIPTIVE NOTE: 11P.

ISSUE: RIEAUG70

TESTED WAS THE HYPOTHESIS THAT SCIENCE INSTRUCTION BASED ON TASK ANALYSIS WILL LEAD TO THE ACQUISITION OF THE ABILITY TO PERFORM CERTAIN PIAGET VOLUME TASKS WHICH HAVE BEEN CHARACTERIZED AS REQUIRING FORMAL OPERATIONS FOR THEIR SOLUTIONS. A TEST ON FORMAL OPERATIONS AND A LEARNING HIERARCHIES TEST WERE GIVEN TO FOURTH- AND SIXTH-GRADE STUDENTS IN A SCHOOL WHICH HAD USED "SCIENCE - A PROCESS APPROACH" AND TO FOURTH- AND SIXTH-GRADE STUDENTS IN ANOTHER SCHOOL WHICH HAD NOT USED "SCIENCE - A PROCESS APPROACH". AFTER PRETESTING, STUDENTS AT EACH GRADE LEVEL AT EACH SCHOOL WERE DIVIDED BY RANDOM ASSIGNMENT INTO EXPERIMENTAL AND CONTROL GROUPS. THE EXPERIMENTAL GROUPS RECEIVED INSTRUCTION BASED ON LEARNING HIERARCHIES WHICH INCORPORATED IDEAS OF GAGNE; THE CONTROL GROUPS RECEIVED INSTRUCTION NOT RELATED TO HIERARCHIES. ALL CHILDREN WERE POSTTESTED WITH INSTRUMENTS USED AS THE PRETEST. IT WAS FOUND THAT ABILITY TO PERFORM THE VOLUME TASKS AT FOURTH-GRADE LEVEL MAY BE RELATED TO EXPERIENCE IN "SCIENCE - A PROCESS APPROACH". A SIMILAR RELATIONSHIP WITH SIXTH-GRADE STUDENTS WAS NOT FOUND. A POSITIVE CORRELATION WAS FOUND BETWEEN MENTAL AGE AND PERFORMANCE ON THE TEST ON FORMAL OPERATIONS. THE RESULTS SEEM TO SUPPORT PIAGET'S THEORY OF EQUILIBRATION. (BR)

INSTITUTION NAME: SOUTHWEST EDUCATIONAL DEVELOPMENT LAB., AUSTIN, TEX.; TEXAS UNIV., AUSTIN. SCIENCE EDUCATION CENTER.

ACCESSION NUMBERS: ED038279 SE008008

PUBLICATION DATE: OCT 69

TITLE: A REPORT TO THE CALIFORNIA STATE BOARD OF EDUCATION BY THE CONSERVATION EDUCATION ADVISORY COMMITTEE.

PERSONAL AUTHOR: DAVIDSON, JACK; AND OTHERS

INSTITUTION CODE: CIQ11108

DESCRIPTOR: *ADMINISTRATIVE POLICY; *CONSERVATION EDUCATION; *EDUCATIONAL RESOURCES; ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; *GOVERNMENT ROLE; INSTRUCTIONAL MATERIALS; SECONDARY SCHOOL SCIENCE; TEACHER EDUCATION

IDENTIFIER: CALIFORNIA

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.45

DESCRIPTIVE NOTE: 67P.

ISSUE: RIEAUG70

NINE KEY FINDINGS AND MAJOR RECOMMENDATIONS ARE LISTED, RELATING TO STATE EDUCATION DEPARTMENT ADMINISTRATIVE POLICIES, LOCAL SCHOOL PROGRAMS, TEACHER TRAINING, COMMUNITY ASSISTANCE, AND TEACHER MATERIALS. EACH OF THESE AREAS IS THEN DISCUSSED IN MORE DETAIL, IDENTIFYING NEEDS AND SUGGESTING WAYS IN WHICH THEY CAN BE MET. AREAS OF RESPONSIBILITY FOR A "CONSERVATION EDUCATION SERVICE" ARE SUGGESTED. A VARIETY OF CURRICULAR MATERIALS AND OTHER RESOURCES ARE REVIEWED, AND SUGGESTIONS MADE FOR PROVISION OF MORE ADEQUATE MATERIALS. A CONSERVATION COURSE SUITABLE FOR PRESERVICE TRAINING OF TEACHERS IS OUTLINED. (EB)

INSTITUTION NAME: CALIFORNIA STATE DEPT. OF EDUCATION, SACRAMENTO. BUREAU OF ELEMENTARY AND SECONDARY EDUCATION.

ACCESSION NUMBERS: ED038224 RC004253

PUBLICATION DATE: JUL 68

TITLE: THE TEACHERS' HANDBOOK FOR THE OUTDOOR SCHOOL.

PERSONAL AUTHOR: GILFILLAN, WARREN C.; BURGESS, ROBERT A.

INSTITUTION CODE: BBB03388

DESCRIPTOR: ACTIVITIES; BEHAVIOR STANDARDS; *CAMPING; ECOLOGY; ENVIRONMENTAL EDUCATION; EQUIPMENT; GRADE 6; ORIENTATION; *OUTDOOR EDUCATION; *RESIDENT CAMP PROGRAMS; STUDENT ROLE; *TEACHING GUIDES; *YOUTH LEADERS; YOUTH PROGRAMS

IDENTIFIER: OREGON; PORTLAND

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$2.20

DESCRIPTIVE NOTE: 42P.

ISSUE: RIEAUG70

BUILT AROUND THE ROLE OF THE TEACHER IN OUTDOOR EDUCATION, THIS MANUAL OUTLINES IMPORTANT ASPECTS OF AN ORGANIZED OUTDOOR SCHOOL PROGRAM FOR SIXTH-GRADE STUDENTS IN MULTNOMAH COUNTY, OREGON. THE MANUAL DESCRIBES THE OUTDOOR SCHOOL. STAFF RESPONSIBILITIES, AND ORIENTATION TO THE OUTDOOR SCHOOL. SPECIFIC INFORMATION FOR TEACHERS, SUGGESTED FOLLOW-UP ACTIVITIES, AND A CHECKLIST OF TEACHER EQUIPMENT AND CLOTHING NEEDS ARE ALSO PRESENTED. THE PREVAILING THEME OF THIS MANUAL IS THAT THE CLASSROOM TEACHER IS THE MOST IMPORTANT PERSON IN DICTATING THE TYPE OF EXPERIENCE THE SIXTH-GRADE YOUNGSTERS WILL HAVE AT THE OUTDOOR SCHOOL. RELATED DOCUMENTS ARE ED 018 376, RC 004 250, AND RC 004 251. (DB)

INSTITUTION NAME: MULTNOMAH OUTDOOR EDUCATION, PORTLAND, ORE.

ACCESSION NUMBERS: ED038206 RC004231

PROGRAM AREA: 05

PUBLICATION DATE: 67

TITLE: OUTDOOR EDUCATION MANUAL FOR THE NATURE-RESOURCE CENTER.

PERSONAL AUTHOR: ROLLER, ELIZABETH; GREEN, RICHARD

INSTITUTION CODE: XIE81777

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: BIOLOGY; CONCEPT TEACHING; *CURRICULUM ENRICHMENT; *ECOLOGY; EDUCATIONAL PLANNING; ENVIRONMENTAL EDUCATION; FIELD TRIPS; GEOLOGY; INSTRUCTIONAL AIDS; NATURAL RESOURCES; *NATURE CENTERS; *OUTDOOR EDUCATION; *TEACHING GUIDES; TRAILS

IDENTIFIER: *TENNESSEE

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.05

DESCRIPTIVE NOTE: 79P.

ISSUE: RIEAUG70

WRITTEN AS A GUIDE FOR OUTDOOR EDUCATION, THIS TEACHER'S MANUAL OUTLINES THE USE OF THE NATURE-RESOURCE CENTER IN NASHVILLE, TENNESSEE, AS A RESOURCE FOR CURRICULUM ENRICHMENT. THE FIRST PART OF THE MANUAL PROVIDES GENERAL INFORMATION FOR BASIC UNDERSTANDING OF THE CENTER. INCLUDED IN THIS PART OF THE MANUAL ARE AN INTRODUCTION TO THE CENTER, THINGS TO SEE ON THE WAY TO THE CENTER, IDEAS ON CLASSROOM OBJECTIVES PRIOR TO VISITING THE CENTER, SOME SUGGESTED FOLLOW-UP ACTIVITIES IN THE CLASSROOM, AND SOME GROUND RULES TO BE FOLLOWED WHEN VISITING THE CENTER. THE SECOND PART OF THE MANUAL DISCUSSES EACH TRAIL THAT MAY BE TAKEN AND PROVIDES AN EXPLANATION OF WHAT IS TO BE SEEN AT EACH STATION ON THE PARTICULAR TRAIL. CONCEPTS TO BE DEVELOPED AT THE VARIOUS TRAIL STATIONS ARE ENUMERATED, AND FIELD NOTES FOR LESSONS ON SUCH THINGS AS ANIMALS, FORESTRY, GEOLOGY, AND PLANTS ARE PROVIDED. (DB)

INSTITUTION NAME: NASHVILLE - DAVIDSON COUNTY METROPOLITAN PUBLIC SCHOOLS, TENN.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBERS: ED038219 RC004246

PUBLICATION DATE: 69

TITLE: THE PIONEER STUDENT TEXTBOOK FOR THE MOHICAN SCHOOL IN THE OUT-OF-DOORS. A TEACHER-GUIDED STUDY IN YOUR OUTDOOR LABORATORY.

INSTITUTION CODE: BBB03387

SPONSORING AGENCY CODE: BBB01039

DESCRIPTOR: COMMUNITY RESPONSIBILITY; CONSERVATION EDUCATION; CREATIVE EXPRESSION; ECOLOGY; *ELEMENTARY SCHOOL CURRICULUM; HISTORY; INNOVATION; MATHEMATICS; *NATURAL RESOURCES; *OUTDOOR EDUCATION; PHYSICAL RECREATION PROGRAMS; POETRY; *RESIDENT CAMP PROGRAMS; SCIENCES; SOCIAL DEVELOPMENT; *TEXTBOOKS

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.00

DESCRIPTIVE NOTE: 58P.

ISSUE: RIEAUG70

INTENDED FOR PRE-CAMP PREPARATION AND IN-CAMP STUDIES, THIS TEST PRESENTS TO THE STUDENT A DESCRIPTION OF THE DAILY COMMUNITY LIFE AT THE MOHICAN SCHOOL IN THE OUT-OF-DOORS AT PERRYSVILLE, OHIO. ASSIGNMENTS AND STUDY TOPICS INCLUDE (1) HISTORY, (2) CREATIVE EXPRESSION WITH SKETCHES AND POETRY, (3) BOTANY, (4) BIRDS, (5) SOIL, AND (6) WEATHER. NUMEROUS ILLUSTRATIONS AND CHARTS SUPPLEMENT THE WRITTEN MATERIALS. RELATED DOCUMENTS ARE RC 004 245 AND RC 004 247. (BD)

AVAILABILITY: MOHICAN SCHOOL IN THE OUT-OF-DOORS, MCCURDY ROAD - RT. #2, PERRYSVILLE, OHIO 44864 ($2.00)

INSTITUTION NAME: MOHICAN SCHOOL IN THE OUT-OF-DOORS, PERRYSVILLE, OHIO.

SPONSORING AGENCY NAME: MARTHA HOLDEN JENNINGS FOUNDATION, CLEVELAND, OHIO.

ACCESSION NUMBERS: ED038168 PS002909

PUBLICATION DATE: NOV 69

TITLE: PRESCHOOL MATHEMATICS CURRICULUM PROJECT. FINAL REPORT.

PERSONAL AUTHOR: ADKINS, DOROTHY C.; AND OTHERS

INSTITUTION CODE: ITI31725

SPONSORING AGENCY CODE: FGK65995

DESCRIPTOR: COGNITIVE PROCESSES; CONSERVATION (CONCEPT); *CURRICULUM DEVELOPMENT; DEVELOPMENTAL TASKS; GEOMETRIC CONCEPTS; INSTRUCTIONAL MATERIALS; MATHEMATICAL CONCEPTS; *MATHEMATICS EDUCATION; *PRESCHOOL PROGRAMS; PROGRAM EVALUATION; TEACHING METHODS

IDENTIFIER: HEAD START; HEAD START ARITHMETIC TEST

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.50

DESCRIPTIVE NOTE: 28P.

ISSUE: RIEAUG70

THE PRESENT PROJECT PROVIDED FOR THE DEVELOPMENT OF A DETAILED QUANTITATIVE CURRICULUM APPROPRIATE FOR USE IN HEAD START CLASSES, TRIAL OF THE DEVELOPED MATERIALS WITH PRESCHOOL CHILDREN IN HAWAII, AND PRELIMINARY ASSESSMENT OF THE CURRICULUM IN COMPARISON WITH A MORE SPONTANEOUS, INFORMAL QUANTITATIVE CLASSROOM EXPERIENCE. DIRECTIONS FOR TASKS RELATED TO NUMBER AND COUNTING, GEOMETRY, DIMENSION, PREARITHMETIC OPERATIONS, AND SYMBOLS WERE PREPARED AND REVISED THROUGHOUT THE SCHOOL YEAR 1968-69 AND PRESENTED TO 55 CHILDREN IN THREE EXPERIMENTAL CLASSES DAILY IN 20-MINUTE LESSONS. THE TASKS WERE THEN COMPILED INTO A TEACHER'S MANUAL. THE GEOMETRIC DESIGN, ARITHMETIC, AND BLOCK DESIGN SUBTESTS OF THE WPPSI; AN EXPERIMENTAL FORM OF THE HEAD START ARITHMETIC TEST; AND TWO PIAGETIAN CONSERVATION TASKS WERE ADMINISTERED TO THE EXPERIMENTAL SUBJECTS AND 30 SUBJECTS IN TWO COMPARISON CLASSES TO MEASURE MATHEMATICAL KNOWLEDGE AND UNDERSTANDING. THE MEAN SCORES ON THE WPPSI SUBTESTS FOR THE EXPERIMENTAL CLASSES WERE ALL ABOVE THE STANDARDIZED NORMS AND CONSISTENTLY HIGHER THAN FOR THE COMPARISON CLASSES. THE DIFFERENCES WERE STATISTICALLY SIGNIFICANT ON THE GEOMETRIC DESIGN AND BLOCK DESIGN SUBTESTS. THE NET GAIN ON THE HEAD START ARITHMETIC TEST WERE ALSO SIGNIFICANTLY GREATER FOR THE EXPERIMENTAL GROUP THAN FOR THE COMPARISON GROUP. (AUTHOR)

INSTITUTION NAME: HAWAII UNIV., HONOLULU. EDUCATIONAL RESEARCH AND DEVELOPMENT CENTER.

SPONSORING AGENCY NAME: OFFICE OF ECONOMIC OPPORTUNITY, WASHINGTON, D.C.

ACCESSION NUMBERS: ED037738 CG005030

PUBLICATION DATE: 69

TITLE: HEALTH CURRICULUM MATERIALS: GRADES 7, 8, AND 9. STRAND IV, ENVIRONMENTAL AND COMMUNITY HEALTH; CONSUMER HEALTH EDUCATION. SPECIAL EDITION FOR EVALUATION AND DISCUSSION.

PERSONAL AUTHOR: VAN HOOFT, GORDON E.; AND OTHERS

INSTITUTION CODE: BBB00116

DESCRIPTOR: *COMMUNITY HEALTH; *CONSUMER EDUCATION; CURRICULUM; CURRICULUM DESIGN; *CURRICULUM GUIDES; *ENVIRONMENTAL EDUCATION; *HEALTH EDUCATION; HEALTH GUIDES; HEALTH PROGRAMS; INSTRUCTIONAL MATERIALS; JUNIOR HIGH SCHOOLS; SECONDARY EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$2.50

DESCRIPTIVE NOTE: 48P.

ISSUE: RIEAUG70

THIS PUBLICATION CONTAINS CURRICULUM SUGGESTIONS FOR TEACHING ENVIRONMENTAL AND COMMUNITY HEALTH-CONSUMER HEALTH, FOR GRADES SEVEN, EIGHT, AND NINE. OUTCOMES DESIRED AT THIS LEVEL INCLUDE: 1) BEING AWARE OF THE PRACTICE OF HEALTH QUACKERY AND BEING ABLE TO RECOGNIZE THOSE TRAITS THAT CHARACTERIZE THE HEALTH FRAUD, HIS TECHNIQUES, AND HIS PRODUCTS; 2) TO FULLY UNDERSTAND THE HAZARDS OF HEALTH QUACKERY AND THE REASONS WHY QUACKERY CONTINUES TO FLOURISH IN OUR SOCIETY; 3) HAVING AN AWARENESS OF THE BASIC FACTORS INVOLVED IN CONSUMER MOTIVATION AND THE SIGNIFICANCE OF THE TEEN-AGE CONSUMER OF HEALTH SERVICES AND PRODUCTS; AND 4) DEVELOPING THOSE INSIGHTS AND ABILITIES THAT CHARACTERIZE INTELLIGENT AND DISCRIMINATING CONSUMER HEALTH PRACTICE. THE PUBLICATION FORMAT OF FOUR COLUMNS IS INTENDED TO PROVIDE TEACHERS WITH A BASIC CONTENT OUTLINE IN THE FIRST COLUMN; A LISTING OF THE MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS WHICH PUPILS MAY ACHIEVE IN THE SECOND COLUMN; AND INFORMATION SPECIFICALLY DESIGNED FOR CLASSROOM TEACHERS WHICH SHOULD PROVIDE THEM WITH RESOURCE MATERIALS, TEACHING AIDS, AND SUPPLEMENTARY INFORMATION, IN THE THIRD AND FOURTH COLUMNS. (KJ)

INSTITUTION NAME: NEW YORK STATE EDUCATION DEPT., ALBANY. BUREAU OF SECONDARY CURRICULUM DEVELOPMENT.

ACCESSION NUMBERS: ED037360 SE008161

PUBLICATION DATE: 69

TITLE: TWO AND ONE HALF MONTHS AS CONSULTANT TO THE GOVERNMENT OF MAURITIUS, MINISTRY OF EDUCATION AND CULTURAL AFFAIRS ON ASPECTS OF BIOLOGY TEACHING-SEPTEMBER TO DECEMBER, 1969.

PERSONAL AUTHOR: MEYER, REX

INSTITUTION CODE: BBB03213

SPONSORING AGENCY CODE: IBG88895

DESCRIPTOR: *BIOLOGY; *CURRICULUM DEVELOPMENT; EDUCATIONAL TELEVISION; *ENVIRONMENTAL EDUCATION; FIELD TRIPS; INSERVICE TEACHER EDUCATION; *INTERNATIONAL EDUCATION; *SECONDARY SCHOOL SCIENCE; TEACHER EDUCATION

IDENTIFIER: UNESCO

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$9.35

DESCRIPTIVE NOTE: 185P.

ISSUE: RIEJUL70

INCLUDED IS A DESCRIPTION OF THE PRESENT STATUS AND NEEDED IMPROVEMENTS IN BIOLOGY TEACHING IN MAURITIUS. NEEDED CHANGES ARE DESCRIBED IN TERMS OF CURRICULUM, EXAMINATIONS, PRESERVICE AND INSERVICE TRAINING OF TEACHERS, PRODUCTION OF RESOURCE MATERIALS AND SIMPLE APPARATUS, THE USE OF EDUCATIONAL TELEVISION, RADIO BROADCASTS AND AUDIO-VISUAL AIDS, AND THE NEED FOR OVERALL COORDINATION. DETAILED PROPOSALS WERE MADE FOR IMPROVING THE STATUS OF ENVIRONMENTAL EDUCATION IN MAURITIUS, AND FOR THE ESTABLISHMENT OF EDUCATION SERVICES AT THE NATURAL HISTORY MUSEUM. BIOLOGY TEACHERS WERE INVOLVED IN SEVERAL WORKSHOPS AND SEMINARS AND HELPED TO PREPARE A NEW BIOLOGY COURSE. APPENDICES INCLUDE REPORTS AND PROPOSALS SUBMITTED AT VARIOUS STAGES IN THE PROJECT, CONSTRUCTION GUIDES FOR SOME INEXPENSIVE APPARATUS, AND 95 PHOTOGRAPHS. (EB)

REPORT NUMBER: NS-2812-69; SC-24-017

INSTITUTION NAME: MACQUARIE UNIV., NORTH RYDE (AUSTRALIA).

SPONSORING AGENCY NAME: UNITED NATIONS EDUCATIONAL, SCIENTIFIC, AND CULTURAL ORGANIZATION, PARIS (FRANCE).

ACCESSION NUMBERS: ED037295 RC004185

PUBLICATION DATE: 68

TITLE: FIELD STUDY MANUAL FOR OUTDOOR LEARNING.

PERSONAL AUTHOR: MILLIKEN, MARGARET; AND OTHERS

DESCRIPTOR: BOTANY; CONSERVATION (CONCEPT); CURRICULUM ENRICHMENT; *ECOLOGY; EDUCATIONAL PLANNING; EDUCATIONAL PROGRAMS; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL INNOVATION; *LEARNING ACTIVITIES; METEOROLOGY; NATURAL RESOURCES; *OUTDOOR EDUCATION; PHYSICAL ENVIRONMENT; SOIL SCIENCE; *STUDY GUIDES; WATER RESOURCES; ZOOLOGY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 127P.

ISSUE: RIEJUL70

ECOLOGY, THE STUDY OF NATURAL RESOURCES, AND INFLUENCES ON NATURAL RESOURCES ARE THE CONCERNS OF THIS STUDY, ALONG WITH THE IDEA OF LEARNING HOW TO LIVE WITH AND UNDERSTAND OUR RESOURCES. THIS MANUAL GIVES A DETAILED PRESENTATION OF USING THE OUTDOORS AS A CLASSROOM AND, ALTHOUGH WRITTEN ON A MORE ADVANCED LEVEL, PROBABLY COULD BE ADAPTED EVEN TO THE ELEMENTARY CURRICULUM. AREAS FOCUSED UPON ARE (1) MAPPING THE FIELD STUDY AREA, (2) FIELD STUDY INFORMATION, (3) A STUDY OF SOIL (4) A STUDY OF WATER, (5) A STUDY OF PLANTS, (6) A STUDY OF ANIMAL LIFE, AND (7) A STUDY OF WEATHER. THE STUDY GUIDES FOR THE VARIOUS AREAS INCLUDE GENERAL INFORMATION ABOUT THE TOPIC PLUS ILLUSTRATIONS AND SEVERAL SUGGESTED PROJECTS. (DB)

AVAILABILITY: BURGESS PUBLISHING COMPANY, 426 SOUTH SIXTH STREET, MINNEAPOLIS, MINNESOTA 55415 ($2.35)

ACCESSION NUMBERS: ED037286 RC004174

PROGRAM AREA: 24

PUBLICATION DATE: MAR 70

TITLE: OUTDOOR EDUCATION: A SYNTHESIS.

PERSONAL AUTHOR: DONALDSON, GEORGE W.; GOERING, OSWALD H.

INSTITUTION CODE: QII59660

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: ACTIVITIES; *ADMINISTRATION; CURRICULUM ENRICHMENT; ENVIRONMENTAL EDUCATION; FACILITIES; FINANCIAL PROBLEMS; *HISTORY; *OUTDOOR EDUCATION; *SYNTHESIS; *TEACHER EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.95

DESCRIPTIVE NOTE: 17P.

ISSUE: RIEJUL70

THE NEW KNOWLEDGE IN OUTDOOR EDUCATION IS SYNTHESIZED IN THIS MONOGRAPH, AND 8 PRINCIPLES FELT ESSENTIAL TO THE SUCCESSFUL PROGRAM ARE ENUMERATED. A HISTORICAL SECTION INCLUDES EARLY TERMINOLOGY AND OBJECTIVES IN THE FIELD, AND DISCUSSES THE FIRST ATTEMPTS AT ORGANIZING THE PROPONENTS OF OUTDOOR EDUCATION. ADMINISTRATIVE PROBLEMS ARE EXAMINED IN RELATION TO PERSONNEL, FACILITIES, AND FINANCE. THE FINAL SECTION OF THE DOCUMENT IS CONCERNED WITH EDUCATION FOR TEACHERS IN THE FIELD OF OUTDOOR EDUCATION. THE BIBLIOGRAPHY INCLUDES 20 DISSERTATIONS AND THESES, MOSTLY WRITTEN DURING THE 1960'S, IN ITS 35 ENTRIES. (BD)

CONTRACT NUMBER: OEC-1-6-062469-1574

BUREAU NUMBER: BR-6-2469

INSTITUTION NAME: NEW MEXICO STATE UNIV., UNIVERSITY PARK. ERIC CLEARINGHOUSE ON RURAL EDUCATION AND SMALL SCHOOLS.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBERS: ED036900 EA002792

PUBLICATION DATE: FEB 68

TITLE: AMERICAN EDUCATIONAL RESEARCH ASSOCIATION PAPER ABSTRACTS, 1968 ANNUAL MEETING.

PERSONAL AUTHOR: HAUSDORFF, HENRY, ED.

INSTITUTION CODE: FGK01725

DESCRIPTOR: *ABSTRACTS; CLASSROOM COMMUNICATION; CONCEPT TEACHING; *CONFERENCE REPORTS; CONSERVATION EDUCATION; CULTURALLY DISADVANTAGED; *EDUCATIONAL RESEARCH; EDUCATIONAL STRATEGIES; EVALUATION; INDIVIDUAL DIFFERENCES; *NATIONAL ORGANIZATIONS; PROGRAMED INSTRUCTION; REINFORCEMENT; SOCIOECONOMIC STATUS; STUDENT CHARACTERISTICS; TEACHER BEHAVIOR; TESTING PROBLEMS; VERBAL COMMUNICATION

EDRS PRICE: EDRS PRICE MF-$1.50 HC-$18.80

DESCRIPTIVE NOTE: 374P.; ABSTRACTS OF PAPERS PRESENTED AT THE PAPER SESSIONS OF THE ANNUAL MEETING OF THE AERA (CHICAGO, ILLINOIS, FEB. 8-10, 1968)

ISSUE: RIEJUL70

THIS DOCUMENT CONTAINS ABSTRACTS OF APPROXIMATELY 400 PAPERS PRESENTED AT THE 1968 ANNUAL MEETING OF THE AMERICAN EDUCATIONAL RESEARCH ASSOCIATION. A SAMPLING OF THE VARIED SUBJECTS COVERED INCLUDES: CLASSROOM INTERACTION, VERBAL BEHAVIOR, CONCEPT LEARNING, CONSERVATION CONCEPTS, TEACHING THE DISADVANTAGED, TEACHING STRATEGIES, RESEARCH ON TESTING, CHARACTERISTICS OF COLLEGE POPULATIONS, VOCATIONAL EDUCATION, CAREER DEVELOPMENT, PLANNING AND DECISION MAKING IN ADMINISTRATIVE ORGANIZATION, AND RESEARCH ON CLASSROOM BEHAVIOR. A TOPICAL INDEX OF THE PAPERS AND AN INDEX OF PARTICIPANTS CONCLUDE THE COLLECTION. RELATED DOCUMENTS ARE EA 002 791, EA 002 793, AND EA 002 794. (DE)

INSTITUTION NAME: AMERICAN EDUCATIONAL RESEARCH ASSOCIATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED037285 RC004173

PROGRAM AREA: 24

PUBLICATION DATE: MAR 70

TITLE: OUTDOOR EDUCATION, A SELECTED BIBLIOGRAPHY.

PERSONAL AUTHOR: FULTON, EULYNE, COMP.; LOOMIS, CHARLOTTE ANN, COMP.

INSTITUTION CODE: QII59660

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; CAMPING; *CONSERVATION EDUCATION; ELEMENTARY SCHOOL SCIENCE; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *OUTDOOR EDUCATION; PHYSICAL EDUCATION; PROGRAM PLANNING; *RECREATION; RECREATIONAL FACILITIES; SECONDARY SCHOOL SCIENCE

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.00

DESCRIPTIVE NOTE: 78P.

ISSUE: RIEJUL70

SOME 134 DOCUMENTS PUBLISHED BETWEEN 1952 AND 1969 ARE CITED IN THIS ANNOTATED BIBLIOGRAPHY ON OUTDOOR EDUCATION. THESE MATERIALS WERE SELECTED FROM THE TOTAL ERIC COLLECTION THROUGH DECEMBER OF 1969 AND ARE LISTED WITH COMPLETE ABSTRACTS. DOCUMENTS SELECTED DEAL WITH OUTDOOR EDUCATION, RECREATION, CONSERVATION EDUCATION, AND INSTRUCTIONAL MATERIALS AND TEACHING GUIDES IN THESE AREAS. A DESCRIPTOR INDEX AT THE END OF THE DOCUMENT IS INTENDED TO FACILITATE LOCATING DOCUMENTS PERTINENT TO A SPECIFIC SUBJECT AREA. ORDERING INFORMATION FOR THE ERIC MATERIALS CITED IS ALSO PRESENTED. (DK)

CONTRACT NUMBER: OEC-1-6-062469-1574

BUREAU NUMBER: BR-6-2469

AVAILABILITY: MANAGER, DUPLICATING SERVICE, NEW MEXICO STATE UNIVERSITY, P. O. BOX 3-CB, LAS CRUCES, NEW MEXICO 88001 ($1.00)

INSTITUTION NAME: NEW MEXICO STATE UNIV., UNIVERSITY PARK. ERIC CLEARINGHOUSE ON RURAL EDUCATION AND SMALL SCHOOLS.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBERS: ED036631 VT010261

PUBLICATION DATE: 4 OCT 69

TITLE: EDUCATION OF TECHNICIANS FOR WATER CONSERVATION AND WASTEWATER CONTROL.

PERSONAL AUTHOR: BROOKING, WALTER J.

DESCRIPTOR: *CURRICULUM GUIDES; FEDERAL LEGISLATION; IMPROVEMENT; *POST SECONDARY EDUCATION; *PROGRAM DEVELOPMENT; RECRUITMENT; SPEECHES; *SUBPROFESSIONALS; VOCATIONAL EDUCATION; WATER POLLUTION CONTROL; *WATER RESOURCES

IDENTIFIER: *FAYETTEVILLE TECHNICAL INSTITUTE

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.05

DESCRIPTIVE NOTE: 19P.; PRESENTATION GIVEN AT THE OPERATOR TRAINING WORKSHOP AT THE WATER POLLUTION CONTROL FEDERATION (DALLAS, TEXAS, OCTOBER 4, 1969)

ISSUE: RIEJUN70

THERE IS A GROWING NEED FOR SUPPORTIVE PERSONNEL WITH TECHNICAL PREPARATION IN WATER AND WASTEWATER PURIFICATION AND WATER RESOURCE CONSERVATION. A CURRICULUM AND PROGRAM GUIDE WAS DEVELOPED IN 1965-66 BY FAYETTEVILLE TECHNICAL INSTITUTE FOR USE BY INSTITUTIONS INTERESTED IN ESTABLISHING A PROGRAM TO EDUCATE TECHNICIANS. MEETING THE NEED FOR INCREASING WATER TECHNICIAN PROGRAMS LIES WITHIN THE REACH OF OUR NATIONAL LEADERS, PARTICULARLY EMPLOYERS. METHODS SUCH AS IMPROVING STUDENT RECRUITMENT AND STUDENT DEVELOPMENT PROGRAMS, UPGRADING PRESENT EMPLOYEES IN POST-HIGH SCHOOL PROGRAMS, AND UTILIZING FUNDS PROVIDED BY CURRENT VOCATIONAL EDUCATION LEGISLATION SHOULD BE UTILIZED. A SUGGESTED REFERENCE AVAILABILITY LIST IS APPENDED. (GR)

ACCESSION NUMBERS: ED036450 SE007904

PUBLICATION DATE: 69

TITLE: TEACHING TIPS ON CURRENT ENVIRONMENTAL PROBLEMS.

PERSONAL AUTHOR: BUSCH, PHYLLIS S.

INSTITUTION CODE: QPX88770

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: *CONSERVATION EDUCATION; *ELEMENTARY SCHOOL SCIENCE; ENVIRONMENTAL EDUCATION; OUTDOOR EDUCATION; *POLLUTION; *SCIENCE ACTIVITIES; *SOCIAL PROBLEMS; *TEACHING GUIDES

IDENTIFIER: ESEA TITLE III; PROJECT SPRUCE

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.95

DESCRIPTIVE NOTE: 17P.

ISSUE: RIEJUN70

THIS MANUAL, PREPARED BY THE SCIENCE PROJECT RELATED TO UPGRADING CONSERVATION EDUCATION (PROJECT S.P.R.U.C.E.), CONTAINS SUGGESTIONS FOR INTRODUCING ELEMENTARY SCHOOL STUDENTS TO CURRENT ENVIRONMENTAL PROBLEMS. PROBLEMS TREATED ARE POPULATION DENSITY, SOCIAL POLLUTION, VISUAL POLLUTION, AIR POLLUTION, AND WATER POLLUTION. A BACKGROUND DISCUSSION OF EACH TOPIC IS FOLLOWED BY SUGGESTIONS FOR STUDENT ACTIVITIES AND QUESTIONS FOR DISCUSSION. MANY ACTIVITIES INVOLVE OBSERVATIONS IN THE LOCAL DISTRICT, SOME INVOLVE SIMPLE EXPERIMENTS. REFERENCES ARE MADE TO RELEVANT RECORDS AND FILMS, AND A BIBLIOGRAPHY OF PERIODICALS RELATED TO CONSERVATION EDUCATION IS INCLUDED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (EB)

INSTITUTION NAME: ULSTER COUNTY BOARD OF COOPERATIVE EDUCATION SERVICES, NEW PLATZ, N.Y.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF ELEMENTARY AND SECONDARY EDUCATION.

ACCESSION NUMBERS: ED036449 SE007903

PUBLICATION DATE: 69

TITLE: SOME PROBLEMS FOR THE TEACHER USEFUL AS A BASIS FOR PLANNING LESSONS IN SCIENCE-CONSERVATION.

PERSONAL AUTHOR: BUSCH, PHYLLIS S.

INSTITUTION CODE: QPX88770

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: *CONSERVATION EDUCATION; *ELEMENTARY SCHOOL SCIENCE; ENVIRONMENTAL EDUCATION; INTEGRATED CURRICULUM; *OUTDOOR EDUCATION; *SCIENCE ACTIVITIES; SOCIAL PROBLEMS; *TEACHING GUIDES

IDENTIFIER: ESEA TITLE III; PROJECT SPRUCE

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.85

DESCRIPTIVE NOTE: 15P.

ISSUE: RIEJUN70

THIS MANUAL WAS PREPARED FOR ELEMENTARY SCHOOL TEACHERS AS PART OF THE SCIENCE PROJECT RELATED TO UPGRADING CONSERVATION EDUCATION (PROJECT S.P.R.U.C.E.). THE INTRODUCTION EMPHASIZES THE IMPORTANCE OF AN INTEGRATED APPROACH TO ENVIRONMENTAL EDUCATION, AND LISTS SOME RESEARCH FINDINGS IMPORTANT IN PLANNING INSTRUCTION. A CHART SHOWS RELATED UNDERSTANDINGS FROM SCIENCE AND SOCIAL STUDIES KEYED TO GRADE LEVEL. NINE PROBLEM AREAS ARE CHOSEN, AND IN EACH AREA TWO PROBLEMS ARE SUGGESTED FOR INVESTIGATION OR DISCUSSION AT EACH GRADE LEVEL. PROBLEM AREAS ARE: THE CONCEPT OF CHANGE; PLANTS; ANIMALS; OUR GROWING BODIES; AIR, WATER, WEATHER; EARTH AND ITS COMPOSITION; SOLAR SYSTEM AND BEYOND; AND MATTER AND ENERGY. MOST OF THE PROBLEMS LEAD STUDENTS TO OUTDOOR INVESTIGATIONS. THE WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (EB)

INSTITUTION NAME: ULSTER COUNTY BOARD OF COOPERATIVE EDUCATION SERVICES, NEW PLATZ, N.Y.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF ELEMENTARY AND SECONDARY EDUCATION.

ACCESSION NUMBERS: ED036448 SE007898

PUBLICATION DATE: 69

TITLE: ENVIRONMENTAL EDUCATION FOR INTERMEDIATE GRADES: A TEACHER'S MANUAL.

INSTITUTION CODE: BBB02582

DESCRIPTOR: BIBLIOGRAPHIES; BIOLOGY; *CONSERVATION EDUCATION; EARTH SCIENCE; *ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; FIELD TRIPS; OUTDOOR EDUCATION; *SCIENCE ACTIVITIES; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.45

DESCRIPTIVE NOTE: 27P.

ISSUE: RIEJUN70

TEACHING SUGGESTIONS FOR ENVIRONMENTAL EDUCATION IN INTERMEDIATE GRADES ARE GROUPED UNDER FOUR GENERAL HEADINGS: "GEOLOGY," "SOIL CONSERVATION AND LAND USE," "TREES, WOODLOTS, AND FORESTS," AND "WILD-LIFE AND FISHES." LISTED UNDER EACH HEADING ARE ATTITUDES AND UNDERSTANDINGS TO DEVELOP, TOPICS FOR DISCUSSION, AND MANY SUGGESTED ACTIVITIES. ACTIVITIES REQUIRE STUDENTS TO MAKE OUTDOOR OBSERVATIONS, COLLECT NATURAL SPECIMENS, USE REFERENCE MATERIALS, AND PERFORM SIMPLE EXPERIMENTS. SUGGESTIONS ARE MADE FOR FIELD TRIPS. THE BIBLIOGRAPHY LISTS REFERENCES FOR TEACHERS AND STUDENTS RELATED TO EACH OF THE FOUR GENERAL TOPICS, AND INCLUDES CHARTS, MAPS, BULLETINS AND PAMPHLETS AS WELL AS BOOKS. (EB)

INSTITUTION NAME: MICHIGAN STATE DEPT. OF NATURAL RESOURCES, LANSING.

ACCESSION NUMBERS: ED036447 SE007897

PUBLICATION DATE: 69

TITLE: ENVIRONMENTAL EDUCATION FOR JUNIOR HIGH GRADES: A TEACHER'S MANUAL.

INSTITUTION CODE: BBB02582

DESCRIPTOR: BIBLIOGRAPHIES; BIOLOGY; CONSERVATION EDUCATION; *ENVIRONMENTAL EDUCATION; FIELD TRIPS; OUTDOOR EDUCATION; *SCIENCE ACTIVITIES; *SECONDARY SCHOOL SCIENCE; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.95

DESCRIPTIVE NOTE: 37P.

ISSUE: RIEJUN70

TEACHING SUGGESTIONS FOR ENVIRONMENTAL EDUCATION IN JUNIOR HIGH SCHOOL GRADES ARE GROUPED UNDER FIVE GENERAL HEADINGS: "GEOLOGY," "WATER RESOURCES," "SOIL AND LAND USE," "TREES, WOODLOTS, AND FORESTS," AND "WILD-LIFE AND FISHES." LISTED UNDER EACH HEADING ARE ATTITUDES AND UNDERSTANDINGS TO DEVELOP, TOPICS FOR DISCUSSION, AND MANY SUGGESTED ACTIVITIES. ACTIVITIES REQUIRE STUDENTS TO MAKE OUTDOOR OBSERVATIONS, VISIT COMMUNITY FACILITIES AND NATURAL AREAS, AND USE REFERENCE MATERIALS. THE BIBLIOGRAPHY LISTS REFERENCES RELATED TO EACH OF THE FIVE GENERAL TOPICS, AND INCLUDES CHARTS, MAPS, BULLETINS, AND PAMPHLETS AS WELL AS BOOKS. (EB)

INSTITUTION NAME: MICHIGAN STATE DEPT. OF NATURAL RESOURCES, LANSING.

ACCESSION NUMBERS: ED036349 RC003992

PUBLICATION DATE: 17 JUL 68

TITLE: TRENDS IN OUTDOOR EDUCATION.

PERSONAL AUTHOR: KIRK, JOHN J.

DESCRIPTOR: CONSERVATION EDUCATION; *CURRICULUM ENRICHMENT; EDUCATIONAL OPPORTUNITIES; EDUCATIONAL PROGRAMS; *EDUCATIONAL TRENDS; ENVIRONMENTAL EDUCATION; *GRADUATE STUDY; *INSERVICE TEACHER EDUCATION; INTERNATIONAL EDUCATION; LEARNING EXPERIENCE; LEGISLATION; *OUTDOOR EDUCATION; RECREATIONAL PROGRAMS; RESIDENT CAMP PROGRAMS

IDENTIFIER: *UNITED STATES

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.60

DESCRIPTIVE NOTE: 10P.; ADDRESS DELIVERED AT INTERNATIONAL CONGRESS FOR HEALTH, PHYSICAL EDUCATION, AND RECREATION (DUBLIN, IRELAND, JULY 17-22, 1968)

ISSUE: RIEJUN70

IN A SPEECH DELIVERED IN JULY OF 1968, DR. JOHN J. KIRK OF THE NEW JERSEY STATE SCHOOL OF CONSERVATION, ELABORATED ON THE OUTDOOR EDUCATION MOVEMENT IN THE UNITED STATES, CANADA, AND OTHER COUNTRIES. DR. KIRK CONCENTRATED CHIEFLY ON TRENDS IN OUTDOOR EDUCATION AND WHAT INFLUENCES THE TRENDS MAY HAVE ON A NATIONAL AND INTERNATIONAL SCALE. DISCUSSED IN SOME DETAIL WERE THE RESIDENT CENTERS FOR OUTDOOR EDUCATION, SCHOOL-SITE LABORATORIES, IN-SERVICE TEACHER EDUCATION PROGRAMS, GRADUATE AND UNDERGRADUATE PROGRAMS IN OUTDOOR EDUCATION, AND THE NEEDS AND PURPOSES OF OUTDOOR EDUCATION AS SEEN BY GOVERNMENT OFFICIALS. (DB)

ACCESSION NUMBERS: ED035769 VT010280

PUBLICATION DATE: MAR 68

TITLE: ATTITUDES OF SELECTED GROUPS CONCERNING THE ROLE OF VOCATIONAL-TECHNICAL EDUCATION PROGRAMS FOR OCCUPATIONS IN AGRICULTURAL RESOURCES.

PERSONAL AUTHOR: DOWNER, HOWARD I.

DESCRIPTOR: *AGRICULTURAL EDUCATION; *AGRICULTURAL OCCUPATIONS; *ATTITUDES; CURRICULUM DEVELOPMENT; DOCTORAL THESES; EDUCATIONAL NEEDS; INSTRUCTIONAL MATERIALS; *NATURAL RESOURCES; *PROGRAM DEVELOPMENT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 98P.

ISSUE: RIEMAY70

THE ATTITUDES OF PROFESSIONALS, BUSINESSMEN, TEACHERS, PRINCIPALS, AND EXTENSION PERSONNEL TOWARD ESTABLISHMENT OF PROGRAMS OF VOCATIONAL-TECHNICAL EDUCATION FOR OCCUPATIONS CONCERNED WITH CONSERVATION, PROTECTION AND REGULATION, AND RECREATIONAL UTILIZATION OF AGRICULTURAL RESOURCES WERE STUDIED. ATTITUDES CONCERNING THE IMPORTANCE OF SELECTED INSTRUCTIONAL UNITS FOR INCLUSION IN THE COURSE CONTENT OF OCCUPATIONAL EDUCATION FOR AGRICULTURAL RESOURCES WERE ALSO MEASURED. A RANDOM SAMPLE OF 20 FOR EACH OF THE FIVE GROUPS WAS SELECTED FROM A LIST OF QUALIFIED PERSONS. DATA WERE GATHERED THROUGH A PERSONAL INTERVIEW AND ANALYZED THROUGH AN ANALYSIS OF VARIANCE, DUNCAN'S MULTIPLE RANGE TEST, SYMMETRIC CORRELATION, FACTOR ANALYSIS, AND VARIMAX NOTATION. MAJOR FINDINGS WERE: (1) THERE WERE SIGNIFICANT DIFFERENCES IN THE MEAN IMPORTANCE RATINGS AMONG THE GROUPS ON 10 ITEMS OF PROGRAM ESTABLISHMENT AND ON 12 ITEMS OF INSTRUCTIONAL UNITS, (2) FACTOR ANALYSIS FAILED TO CLUSTER MEANINGFUL GROUPINGS OF ITEMS OF PROGRAM ESTABLISHMENT, AND (3) THERE WAS CONSENSUS OF OPINION AMONG THE GROUPS ON 81 PERCENT OF THE ITEMS IN THE SCHEDULE. IT WAS CONCLUDED THAT ITEMS RECEIVING A RATING OF SOME IMPORTANCE OR HIGHER SHOULD BE GIVEN SERIOUS CONSIDERATION WHEN PLANNING PROGRAMS. THIS ED.D. THESIS WAS SUBMITTED TO THE PENNSYLVANIA STATE UNIVERSITY. (DM)

AVAILABILITY: UNIVERSITY MICROFILMS, INC., 300 NORTH ZEEB ROAD, ANN ARBOR, MICHIGAN 48106

ACCESSION NUMBERS: ED035558 SE007857

PUBLICATION DATE: 67

TITLE: A PLAN AND DESIGN FOR NATURAL RESOURCES EDUCATION.

PERSONAL AUTHOR: SOUTHERN, BEVERLY H.

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: CONCEPTUAL SCHEMES; *CONSERVATION EDUCATION; *CURRICULUM DESIGN; ELEMENTARY SCHOOL SCIENCE; INTEGRATED CURRICULUM; *NATURAL RESOURCES; *SCIENCE COURSES; SEQUENTIAL PROGRAMS; *SOCIAL STUDIES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.50 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 77P.

ISSUE: RIEMAY70

WITH THE AIM OF REVITALIZING CONSERVATION EDUCATION, A CONCEPTUAL FRAMEWORK FOR NATURAL RESOURCE EDUCATION WAS CONSTRUCTED, AND A PROCEDURE ESTABLISHED FOR INTEGRATING THIS CURRICULUM WITH EXISTING COURSES OF STUDY IN THE ELEMENTARY SCHOOL. A BASIC THEME WAS CHOSEN, EXPRESSED AS "MAN + NATURAL RESOURCES = SURVIVAL + DEVELOPMENT." TWELVE BROAD UNDERSTANDINGS WHICH CONTRIBUTE TO THIS THEME WERE IDENTIFIED, EACH SERVING AS A FOCUS FOR MANY CONCEPTS. CONCEPTS AND BROAD UNDERSTANDINGS WERE ORGANIZED INTO A HIERARCHICAL STRUCTURE. AN INTEGRATED PROGRAM WAS DEVELOPED BY IDENTIFYING RELEVANT CONCEPTS AND MATERIALS IN EXISTING SCIENCE AND SOCIAL STUDIES COURSES, AND BUILDING THESE INTO A SEQUENCE GIVING SPIRAL CONCEPT DEVELOPMENT. SUGGESTED LEARNING EXPERIENCES WERE INCLUDED. THIS REPORT REVIEWS THE LITERATURE ON CONSERVATION AND ENVIRONMENTAL EDUCATION AND ON ATTITUDE EDUCATION. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. NOT AVAILABLE IN HARDCOPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT. (EB)

GRANT NUMBER: OEG-3-7-66220-2083

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF ELEMENTARY AND SECONDARY EDUCATION.

ACCESSION NUMBERS: ED035541 SE006770

PUBLICATION DATE: 69

TITLE: PINE DISCOVERY BOX, 101 STIMULATING IDEAS.

PERSONAL AUTHOR: BUSCH, PHYLLIS S.

INSTITUTION CODE: QPX88770

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: BIOLOGY; *CONSERVATION EDUCATION; *CURRICULUM; DISCOVERY PROCESSES; *ELEMENTARY SCHOOL SCIENCE; *INSTRUCTION; SCIENCE ACTIVITIES; TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$2.30

DESCRIPTIVE NOTE: 44P.

ISSUE: RIEMAY70

THIS MANUAL IS INTENDED FOR USE WITH THE PINE (PROJECTS IN IMAGINATIVE NATURE EDUCATION) DISCOVERY BOX IN ELEMENTARY SCHOOL CONSERVATION EDUCATION. THE BOX CONTAINS 21 NATURAL SPECIMENS WHICH CAN SERVE AS THE STARTING POINT FOR SIMPLE STUDENT INVESTIGATIONS. SPECIMENS AND ACTIVITIES ARE KEYED FOR GRADE LEVEL. FOR EACH ITEM, BACKGROUND INFORMATION IS GIVEN, FOLLOWED BY SEVERAL SUGGESTED STUDENT ACTIVITIES. MANY OF THESE START IN THE CLASSROOM THEN TAKE THE CHILDREN OUTDOORS. MOST INVESTIGATIONS ARE RELATED TO NATURAL HISTORY AND SIMPLE ECOLOGICAL RELATIONSHIPS. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (EB)

INSTITUTION NAME: ULSTER COUNTY BOARD OF COOPERATIVE EDUCATION SERVICES, NEW PLATZ, N.Y.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF ELEMENTARY AND SECONDARY EDUCATION.

ACCESSION NUMBERS: ED035540 SE006766

PUBLICATION DATE: 69

TITLE: SOME GUIDES TO DISCOVERY ABOUT ELM TREES, OWLS, COCKROACHES, EARTHWORMS, CEMENT AND CONCRETE.

PERSONAL AUTHOR: BUSCH, PHYLLIS S.

INSTITUTION CODE: QPX88770

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: BIOLOGY; *CONSERVATION EDUCATION; DISCOVERY LEARNING; *ELEMENTARY SCHOOL SCIENCE; GENERAL SCIENCE; *INSTRUCTIONAL MATERIALS; RESOURCE GUIDES; *SCIENCE ACTIVITIES; *TEACHING GUIDES

IDENTIFIER: ESEA TITLE III; PROJECT SPRUCE

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.00

DESCRIPTIVE NOTE: 18P.

ISSUE: RIEMAY70

THE INTRODUCTION EMPHASIZES THE NEED FOR ENVIRONMENTAL AND CONSERVATION EDUCATION, AND ADVOCATES AN INQUIRY APPROACH. OUTDOOR RESOURCES AVAILABLE TO EVERY SCHOOL ARE LISTED. DETAILED SUGGESTIONS ARE MADE FOR INVESTIGATING CEMENT AND CONCRETE, COCKROACHES, EARTHWORMS, ELM TREES, AND OWLS. IN EACH CASE GENERAL BACKGROUND INFORMATION AND A LIST OF REFERENCES IS FOLLOWED BY SUGGESTED STUDENT ACTIVITIES. IDENTIFICATION KEYS AND INSTRUCTIONS FOR CONSTRUCTING SIMPLE APPARATUS ARE GIVEN WHERE NEEDED. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (EB)

INSTITUTION NAME: ULSTER COUNTY BOARD OF COOPERATIVE EDUCATION SERVICES, NEW PLATZ, N.Y.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF ELEMENTARY AND SECONDARY EDUCATION.

ACCESSION NUMBERS: ED035493 RC003994

PUBLICATION DATE: MAR 68

TITLE: OUTDOOR EDUCATION--ITS ORIGIN AND PURPOSE.

PERSONAL AUTHOR: KIRK, JOHN J.

DESCRIPTOR: CONFERENCES; CONSERVATION EDUCATION; *CURRICULUM ENRICHMENT; ENVIRONMENTAL EDUCATION; FIELD EXPERIENCE PROGRAMS; HISTORY; INSERVICE PROGRAMS; *OUTDOOR EDUCATION; *PROGRAM DESCRIPTIONS; PROGRAM PLANNING; *SPEECHES; TEACHER EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.90

DESCRIPTIVE NOTE: 16P.; ADDRESS DELIVERED AT CONFERENCE ON OUTDOOR EDUCATION (TORONTO, ONTARIO, CANADA, MARCH 1968)

ISSUE: RIEMAY70

OUTDOOR EDUCATION IS POTENTIALLY A POWERFUL TOOL FOR TEACHING CHILDREN ABOUT CONSERVATION, THE BEAUTY OF NATURE, THE INTERRELATEDNESS OF THE NATURAL AND SOCIAL SCIENCES, AND THE MEANING OF LIFE. THESE GOALS ARE NOT ACCOMPLISHED THROUGH AN EMPHASIS ON ANY SINGLE ASPECT OF THE CURRICULUM, BUT RATHER THROUGH ALL SUBJECT AREAS. THIS HAS RESULTED IN DEVELOPMENT OF INTEGRATED CURRICULA FROM KINDERGARTEN THROUGH TWELFTH GRADE IN THE FEW SCHOOLS WHICH HAVE BEEN ABLE OR WILLING TO PROVIDE A COHERENT ONGOING PROGRAM. ONE OF THE MAJOR OBSTACLES CONFRONTING SCHOOLS IS THE COST OF ESTABLISHING AN OUTDOOR EDUCATION PROGRAM. HOWEVER, EVEN WHEN FINANCIAL PROBLEMS ARE SURMOUNTED, STAFFING PROBLEMS REMAIN SINCE FEW TEACHERS ARE TRAINED TO UTILIZE THE NATURAL RESOURCES AVAILABLE TO THEM. IN ORDER TO PROVIDE A FRAMEWORK FOR UNDERSTANDING ITS PRESENT STATUS, A BRIEF HISTORY OF OUTDOOR EDUCATION AND DESCRIPTIONS OF SOME EXISTING OUTDOOR EDUCATION PROGRAMS ARE PRESENTED. IN ADDITION, OUTLINES FOR INSERVICE AND UNIVERSITY PROGRAMS TO TRAIN TEACHERS ARE SUGGESTED. (TL)

ACCESSION NUMBERS: ED035219 EF003728

PUBLICATION DATE: 68

TITLE: STUDY OF ENVIRONMENT IN SCHOOL. RESEARCH IN COMPARATIVE EDUCATION. INTERNATIONAL CONFERENCE ON PUBLIC EDUCATION. (31ST, GENEVA, 1968)

INSTITUTION CODE: IBG88895; XDZ37982

DESCRIPTOR: COMPARATIVE ANALYSIS; *COMPARATIVE EDUCATION; CURRICULUM RESEARCH; EDUCATIONAL METHODS; EDUCATIONAL PRINCIPLES; *EDUCATIONAL RESEARCH; *ENVIRONMENTAL EDUCATION; *INTERNATIONAL EDUCATION

IDENTIFIER: UNESCO; INTERNATIONAL BUREAU OF EDUCATION

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 230P.

ISSUE: RIEMAY70

UNESCO AND THE INTERNATIONAL BUREAU OF EDUCATION DEVOTED THIS INTERNATIONAL INQUIRY IN COMPARATIVE EDUCATION TO THE STUDY OF ENVIRONMENT IN SCHOOLS THROUGHOUT 79 COUNTRIES OF THE WORLD. CONCERNING THE SCOPE OF THE TOPIC, INTRODUCTORY COMMENTS NOTE THAT "STUDY OF ENVIRONMENT IN SCHOOLS IS DIFFICULT TO DEFINE OR CONFINE, FOR IT CONSTITUTES MORE AN EDUCATIONAL PRINCIPLE, OR EVEN A METHOD, THAN A SUBJECT CONCENTRATING ON KNOWLEDGE IN A SPECIFIC FIELD." THE PUBLICATION HAS FOUR PARTS--(1) INTRODUCTION, (2) QUESTIONNAIRE ADDRESSED TO THE MINISTRIES OF EDUCATION, (3) COMPARATIVE STUDY: PLACE ASSIGNED TO THE STUDY ENVIRONMENT IN SCHOOL ACTIVITIES AS A WHOLE, RELATIONSHIP WITH YOUTH MOVEMENTS, AIMS AND DEFINITION, SYLLABUSES AND SUBJECTS FOR STUDY, METHODS, TEACHING TECHNIQUES AND AIDS, TEACHING STAFF, AND (4) INDIVIDUAL STUDIES: RESPONSES FROM THE 79 COUNTRIES. THE RESPONSES FROM PARTICIPATING COUNTRIES REVEALED THAT THE STUDY OF ENVIRONMENT IS RICH IN OPPORTUNITIES, BUT THAT MANY COUNTRIES LACK THE RESOURCES AND LOCAL CIRCUMSTANCES TO EXPLOIT THESE OPPORTUNITIES FULLY. (KK)

REPORT NUMBER: UNESCO-IBE-314

AVAILABILITY: UNIPUB, INC., 650 1ST AVE., NEW YORK, NEW YORK 10016 ($6.50)

INSTITUTION NAME: INTERNATIONAL BUREAU OF EDUCATION, GENEVA (SWITZERLAND).; UNITED NATIONS EDUCATIONAL, SCIENTIFIC, AND CULTURAL ORGANIZATION, PARIS (FRANCE).

ACCESSION NUMBERS: ED034687 SE007696

PUBLICATION DATE: 69

TITLE: FREE TEACHING MATERIALS: CLASSROOM AND CURRICULUM AIDS FOR ELEMENTARY SCHOOL SCIENCE.

PERSONAL AUTHOR: RAIMIST, ROGER J.; MESTER, ROSE A.

INSTITUTION CODE: BBB02579

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *AUDIOVISUAL AIDS; BIOLOGY; CONSERVATION EDUCATION; *ELEMENTARY SCHOOL SCIENCE; HEALTH EDUCATION; *INSTRUCTIONAL MATERIALS; PHYSICAL SCIENCES; *RESOURCE GUIDES; SCIENCE ACTIVITIES

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.20

DESCRIPTIVE NOTE: 62P.

ISSUE: RIEAPR70

FREE TEACHING MATERIALS SUITABLE FOR ELEMENTARY SCHOOL SCIENCE AVAILABLE FROM 168 AGENCIES AND COMPANIES ARE LISTED. MATERIALS INCLUDE BOOKLETS, TEACHER'S SOURCE BOOKS AND GUIDES, CHARTS AND POSTERS, AND CONCRETE MATERIALS SUCH AS MINERAL SAMPLES. SUGGESTIONS AND MATERIALS FOR STUDENT ACTIVITIES RANGE FROM EXPERIMENTS TO SONG SHEETS. TOPICS INCLUDE CONSERVATION AND USE OF NATURAL RESOURCES, FORESTRY, WILDLIFE, ANIMAL CARE, HEALTH EDUCATION, SPACE SCIENCE, INDUSTRIAL PROCESSES AND COMMERCIAL PRODUCTS, AND INFORMATION ON SCIENCE CAREERS. ANNOTATIONS INDICATE THE CONTENT AND QUALITY OF THE MATERIALS. EACH ENTRY IS CODED FOR APPROPRIATE LEVEL (UPPER OR LOWER ELEMENTARY) AND FOR SUITABILITY FOR TEACHER REFERENCE OR STUDENT USE. (EB)

INSTITUTION NAME: CONSERVATION AND ENVIRONMENTAL SCIENCE CENTER FOR SOUTHERN NEW JERSEY, BROWN MILLS.

ACCESSION NUMBERS: ED034676 SE006771

PUBLICATION DATE: 69

TITLE: SPRUCE DISCOVERY MANUAL, 169 INVESTIGATIONS INDOORS AND OUTDOORS.

PERSONAL AUTHOR: BUSCH, PHYLLIS S.

INSTITUTION CODE: QPX88770

SPONSORING AGENCY CODE: RRB00077

DESCRIPTOR: *BIOLOGY; *CONSERVATION EDUCATION; ECOLOGY; *ELEMENTARY SCHOOL SCIENCE; *INSTRUCTIONAL MATERIALS; *OUTDOOR EDUCATION; SCIENCE ACTIVITIES; TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.10

DESCRIPTIVE NOTE: 60P.

ISSUE: RIEAPR70

CONTAINED ARE INSTRUCTIONAL MATERIALS DEVELOPED BY THE SCIENCE PROJECT RELATED TO UPGRADING CONSERVATION EDUCATION ("SPRUCE"). IT IS DESIGNED FOR USE WITH THE SPRUCE "DISCOVERY BOX" AND CONTAINS TWENTY-ONE SETS OF INVESTIGATIONS BASED ON THE TWENTY-ONE PACKETS OF SPECIMENS IN THE BOX; THREE SETS ARE RECOMMENDED FOR EACH OF GRADES K THROUGH 6. EACH OF THE TWENTY-ONE TOPICS IS INTRODUCED BY A "BACKGROUND" SECTION GIVING THE RATIONALE OF THE INVESTIGATIONS AND BACKGROUND INFORMATION FOR THE TEACHER. THIS IS FOLLOWED BY FOUR TO TEN "INVESTIGATIONS"--QUESTIONS AND SUGGESTED ACTIVITIES WHICH REQUIRE STUDENTS TO OBSERVE AND COMPARE, SOMETIMES TO DO SIMPLE EXPERIMENTS, AND USUALLY TO EXTEND THEIR OBSERVATIONS OUTSIDE THE CLASSROOM. THE EARLY TOPICS EMPHASIZE THE USE OF THE SENSES IN OBSERVING, LATER ONES ENABLE STUDENTS TO MAKE DISCOVERIES ABOUT THE CHARACTERISTICS OF ORGANISMS AND HABITATS. THEMES WHICH RUN THROUGH THE INVESTIGATIONS ARE CONSTANT CHANGE IN NATURE AND THE INTERACTION BETWEEN ORGANISMS AND THEIR ENVIRONMENTS. THE INTRODUCTION TO THE MANUAL DESCRIBES THE APPROACH OF THE MATERIALS AND MAKES A PLEA FOR IMPROVED CONSERVATION EDUCATION. WAYS IN WHICH THIS CAN BE FITTED INTO THE GENERAL CURRICULUM ARE SUGGESTED. THE CONTENTS OF THE "DISCOVERY BOX" ARE NOT LISTED, BUT CAN BE INFERRED FROM THE BACKGROUND SECTIONS AND INVESTIGATIONS. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (EB)

INSTITUTION NAME: ULSTER COUNTY BOARD OF COOPERATIVE EDUCATION SERVICES, NEW PLATZ, N.Y.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF ELEMENTARY AND SECONDARY EDUCATION.

ACCESSION NUMBERS: ED034675 SE006768

PUBLICATION DATE: 69

TITLE: A NEW APPROACH TO SCHOOL CAMPING GRADES K-6, SOME SUGGESTIONS FOR OUTDOOR INVESTIGATIONS IN SCIENCE-CONSERVATION FOR CAMPS, PARKS, PLAYGROUND, AND SANCTUARIES.

PERSONAL AUTHOR: BUSCH, PHYLLIS S.

INSTITUTION CODE: OPX88770

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: BIOLOGY; *CONSERVATION EDUCATION; DAY CAMP PROGRAMS; ECOLOGY; *ELEMENTARY SCHOOL SCIENCE; *OUTDOOR EDUCATION; RESIDENT CAMP PROGRAMS; *SCIENCE ACTIVITIES; TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$2.30

DESCRIPTIVE NOTE: 44P.

ISSUE: RIEAPR70

CONTAINED ARE SOME OF THE INSTRUCTIONAL MATERIALS DEVELOPED BY THE SCIENCE PROJECT RELATED TO UPGRADING CONSERVATION EDUCATION. OUTDOOR ACTIVITIES FOR ELEMENTARY SCHOOL CHILDREN, SUITABLE FOR USE IN CAMPS, PARKS, PLAYGROUNDS OR SANCTUARIES ARE DESCRIBED. PROGRAMS ARE DESIGNED FOR ONE-DAY (K-4), TWO-DAY (GRADE 5), AND THREE-DAY (GRADE 6) CAMPS, AND ARE INTENDED TO SUPPLEMENT AN INDOOR-OUTDOOR APPROACH TO TEACHING. THE PROGRAMS HAVE BEEN TESTED WITH ELEMENTARY SCHOOL CHILDREN AT CAMP ASHOKAN, NEW YORK. THIRTY-ONE INVESTIGATIONS ARE DESCRIBED, EACH CONTAINS A PROBLEM TO GUIDE OBSERVATIONS, SUGGESTED OBSERVATIONS TO BE MADE, AND LISTS OF QUESTIONS FOR DISCUSSION. THE INVESTIGATIONS AIM TO INCREASE THE CHILDRENS' UNDERSTANDING OF ANIMAL AND PLANT ADAPTATIONS AND OF THE INTERRELATIONSHIPS BETWEEN ORGANISM AND THEIR HABITATS. POSSIBLE EFFECTS OF DISTURBING THE HABITAT ARE EMPHASIZED. SOME INVESTIGATIONS REQUIRE A MINIMUM OF SIMPLE EQUIPMENT, OTHERS REQUIRE NONE. SEVERAL ACTIVITIES SUITABLE FOR RAINY DAYS ARE DESCRIBED, INCLUDING SIX GAMES. THE APPENDIX GIVES A SUMMARY OF THEMES AND TEACHING SCHEDULES, DRAWINGS OF LEAVES OF COMMON TREES AND OF POND INSECTS, CHARTS FOR USE IN SOME OF THE INVESTIGATIONS, A COMPLETE LIST OF MATERIALS AND EQUIPMENT REQUIRED, AND A SHORT LIST OF REFERENCES FOR TEACHER AND PUPILS. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (EB)

INSTITUTION NAME: ULSTER COUNTY BOARD OF COOPERATIVE EDUCATION SERVICES, NEW PLATZ, N.Y.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF ELEMENTARY AND SECONDARY EDUCATION.

ACCESSION NUMBERS: ED034631 RC003899

PROGRAM AREA: 24

PUBLICATION DATE: DEC 69

TITLE: OUTDOOR EDUCATION: AN OVERVIEW.

PERSONAL AUTHOR: SMITH, JULIAN W.

INSTITUTION CODE: QII59660

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: CONSERVATION EDUCATION; *CURRICULUM ENRICHMENT; *EDUCATIONAL BENEFITS; ENVIRONMENTAL EDUCATION; HISTORY; *OUTDOOR EDUCATION; *PROGRAM DESCRIPTIONS; *RECREATION

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.50

DESCRIPTIVE NOTE: 8P.

ISSUE: RIEAPR70

A DISCUSSION OF THE NATURE AND SCOPE OF OUTDOOR EDUCATION IS OFFERED IN THIS MONOGRAPH. SOCIETAL CHANGES ARE CITED WHICH INDICATE A GROWING NEED FOR OUTDOOR EDUCATION. HISTORICAL AND CURRENT DEVELOPMENTS IN THE FIELD ARE PRESENTED. EDUCATIONAL BENEFITS SUCH AS IMPROVING THE QUALITY OF EDUCATIONAL EXPERIENCES ARE DISCUSSED, AND AREAS RELATED TO OUTDOOR EDUCATION ARE COVERED. THE DOCUMENT CONCLUDES BY EXPLAINING ERIC'S ROLE IN OUTDOOR EDUCATION. (SW)

CONTRACT NUMBER: OEC-1-6-062469-1574

BUREAU NUMBER: BR-6-2469

INSTITUTION NAME: NEW MEXICO STATE UNIV., UNIVERSITY PARK. ERIC CLEARINGHOUSE ON RURAL EDUCATION AND SMALL SCHOOLS.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBERS: ED035378 HE001336

PUBLICATION DATE: SEP 69

TITLE: THE UNIVERSITY OF WISCONSIN--GREEN BAY. 1970-71.

INSTITUTION CODE: BBB02866

DESCRIPTOR: ADMISSION (SCHOOL); *CATALOGS; COCURRICULAR ACTIVITIES; CURRICULUM; *ECOLOGY; EDUCATIONAL PHILOSOPHY; *ENVIRONMENTAL EDUCATION; FINANCIAL SUPPORT; *HIGHER EDUCATION; PROGRAMS; RELEVANCE (EDUCATION); STUDENTS; *UNIVERSITIES

IDENTIFIER: *WISCONSIN UNIVERSITY GREEN BAY

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$8.45

DESCRIPTIVE NOTE: 167P.

ISSUE: RIEMAY70

THIS GENERAL CATALOGUE DESCRIBES THE UNIVERSITY OF WISCONSIN AT GREEN BAY (UWGB). THIS NEW AND INNOVATIVE INSTITUTION HAS SET OUT TO "MEET THE CHALLENGE OF A NEW GENERATION OF YOUTH WHO WILL NOT BE DENIED LESS THAN THEY HAVE BEEN ENCOURAGED TO DREAM." THE SPECIAL FOCUS OF THE UWGB ACADEMIC PLAN IS ON ECOLOGY, OR THE STUDY OF MAN IN RELATION TO HIS SURROUNDINGS. BECAUSE ECOLOGICAL INQUIRY IS PAN-DISCIPLINARY, UWGB HAS ORGANIZED ITS COLLEGES WITHIN THE FRAMEWORK OF ENVIRONMENTAL THEMES RATHER THAN GROUPING THEM ACCORDING TO TRADITIONAL DISCIPLINES. THE COLLEGE OF ENVIRONMENTAL SCIENCES FOCUSES ON THE PROBLEMS OF THE NATURAL ENVIRONMENT, WHILE THE COLLEGE OF COMMUNITY SCIENCES FOCUSES ON THE SOCIAL ENVIRONMENT. THE COLLEGE OF HUMAN BIOLOGY CENTERS ITS ATTENTION ON HUMAN ADAPTABILITY--THE IMPINGEMENT OF THE ENVIRONMENT ON THE INDIVIDUAL. THE COLLEGE OF CREATIVE COMMUNICATION EMPHASIZES THE PROBLEM OF HUMAN IDENTITY, OR THE INDIVIDUAL'S IMPINGEMENT ON HIS ENVIRONMENT. ALL STUDENTS ARE REQUIRED TO SELECT AN ENVIRONMENTAL PROBLEM OR AREA ON WHICH TO FOCUS (30 HOURS), BUT MAY ALSO TAKE "OPTIONS" IN A SPECIFIC DISCIPLINE, A PRE-PROFESSIONAL PROGRAM, OR PROFESSIONAL PROGRAMS IN BUSINESS, PUBLIC ADMINISTRATION, OR EDUCATION. AT THE CORE OF THE ACADEMIC PLAN IS A 4-YEAR SERIES OF LIBERAL EDUCATION SEMINARS FOR ALL STUDENTS. IN ORDER TO SERVE THE STUDENTS, COMMUNITY AND REGION MORE FULLY, SUB-REGIONAL CAMPUSES ARE LOCATED IN FOX VALLEY, MANITOWOC, AND MARINETTE COUNTIES. (DS)

INSTITUTION NAME: WISCONSIN UNIV., GREEN BAY.

ACCESSION NUMBERS: ED033862 SE007637

PUBLICATION DATE: 68

TITLE: CONSERVATION TOOLS FOR EDUCATORS.

INSTITUTION CODE: BBB00642

DESCRIPTOR: *CONSERVATION EDUCATION; COURSE CONTENT; *ELEMENTARY SCHOOL SCIENCE; INTEGRATED CURRICULUM; OUTDOOR EDUCATION; RESOURCE MATERIALS; *SECONDARY SCHOOL SCIENCE; TEACHER WORKSHOPS; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.05

DESCRIPTIVE NOTE: 79P.

ISSUE: RIEMAR70

INCLUDED ARE SUGGESTIONS FOR INTEGRATING CONSERVATION CONCEPTS INTO THE GENERAL CURRICULUM, COORDINATING OUTDOOR WORK WITH INDOOR ACTIVITIES, AND FOR PLANNING AND IMPLEMENTING A SEQUENTIAL CONSERVATION CURRICULUM. GUIDELINES GIVEN FOR TRAINING OF TEACHERS INCLUDE SAMPLE WORKSHOP SCHEDULES. MINIMUM REQUIREMENTS FOR OUTDOOR SCHOOL SITES ARE LISTED. CHARTS ARE GIVEN LISTING CONSERVATION CONCEPTS WITH APPROPRIATE GRADE LEVELS, AND, FOR ELEMENTARY GRADES, SUBJECT AREAS IN WHICH THE CONCEPT CAN BE STRESSED (FINE ARTS, SCIENCES, SOCIAL STUDIES, LANGUAGE ARTS, OR MATHEMATICS). SUGGESTIONS FOR CLASSROOM APPROACHES AND PRESENTATIONS INCLUDE A CHART OF GRADE LEVEL, STUDENT GROWTH CHARACTERISTICS, AND MAJOR SCIENCE SUBJECT MATTER CONSIDERED APPROPRIATE. NOTES ARE GIVEN ON SUBJECT MATTER FOR CLASSROOM PRESENTATION. SEVERAL SAMPLE HIGH SCHOOL CONSERVATION COURSE OUTLINES ARE INCLUDED, AND ALSO A BIBLIOGRAPHY OF SOME CONSERVATION TEACHING MATERIALS. (EB)

INSTITUTION NAME: DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C. FOREST SERVICE.

ACCESSION NUMBERS: ED033844 SE006769

PUBLICATION DATE: 69

TITLE: URBAN DISCOVERY MANUAL, 75 STIMULATING IDEAS FOR INVESTIGATING SOME COMMON URBAN RESOURCES INDOORS AND OUTDOORS, GRADES K-6.

PERSONAL AUTHOR: BUSCH, PHYLLIS S.

INSTITUTION CODE: QPX88770

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: BIOLOGY; *CONSERVATION EDUCATION; EARTH SCIENCE; *ELEMENTARY SCHOOL SCIENCE; *INSTRUCTIONAL MATERIALS; POLLUTION; RESOURCE MATERIALS; SCIENCE ACTIVITIES; *TEACHING GUIDES; *URBAN EDUCATION

IDENTIFIER: ELEMENTARY AND SECONDARY EDUCATION ACT TITLE III

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.70

DESCRIPTIVE NOTE: 32P.

ISSUE: RIEMAR70

PRESENTED ARE 75 SUGGESTIONS FOR INVESTIGATING IN GRADES K-6 SUCH COMMON URBAN RESOURCES AS TREES, SEEDS, POLLUTED AIR, ROCKS, AND INSECTS. THE MANUAL IS DESIGNED FOR USE WITH THE URBAN DISCOVERY BOX WHICH CONTAINS SAMPLES COLLECTED FROM EIGHT URBAN RESOURCES ALONG WITH SOME OBJECTS HELPFUL TO INVESTIGATE THESE. A SECTION IN THE MANUAL FOR EACH OF THE EIGHT RESOURCES PROVIDES TEACHERS WITH NEEDED INFORMATION FOR HELPING THE PUPILS CARRY OUT THEIR INVESTIGATIONS. MANY POTENTIAL PROBLEMS FOR INVESTIGATION ARE DIRECTED AT THE DEVELOPMENT OF SUCH SCIENCE PROCESSES AS HYPOTHESIS FORMATION, OBSERVATION, DATA COLLECTION, THE MAKING OF INFERENCES, CLASSIFICATION, AND FORMULATION OF PROBLEMS. NUMEROUS DISCUSSION QUESTIONS ARE ALSO INCLUDED. A COMPLETE LIST OF RESOURCE MATERIALS IS PROVIDED FOR THE DEVELOPMENT OF A "DISCOVERY BOX." THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (RS)

INSTITUTION NAME: ULSTER COUNTY BOARD OF COOPERATIVE EDUCATION SERVICES, NEW PLATZ. N.Y.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF ELEMENTARY AND SECONDARY EDUCATION.

ACCESSION NUMBERS: ED033843 SE006767

PUBLICATION DATE: 69

TITLE: SEVEN STEPS FOR DEVELOPING AN OUTDOOR SCHOOL AREA FOR TEACHING SCIENCE-CONSERVATION.

PERSONAL AUTHOR: BUSCH, PHYLLIS S.

INSTITUTION CODE: QPX88770

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: *CONSERVATION EDUCATION; EDUCATIONAL PROGRAMS; *ELEMENTARY SCHOOL SCIENCE; INSTRUCTION; *OUTDOOR EDUCATION; PROGRAM DESCRIPTIONS; *PROGRAM GUIDES; PROGRAM PLANNING; SCIENCE ACTIVITIES

IDENTIFIER: ELEMENTARY AND SECONDARY EDUCATION ACT TITLE III

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.60

DESCRIPTIVE NOTE: 30P.

ISSUE: RIEMAR70

PRESENTED ARE "SEVEN STEPS" WHICH CAN BE UTILIZED IN DEVELOPING AN EDUCATIONAL PROGRAM FOCUSED ON THE OUTDOOR ENVIRONMENT. A MAP OF AN AREA LIKELY TO BE FOUND OUTSIDE ALMOST ANY SCHOOL IN ANY COMMUNITY IS PROVIDED. ON THE MAP 19 TEACHING STATIONS ARE INDICATED ALONG WITH A DESCRIPTION OF EACH STATION. THE DESCRIPTIVE MATERIAL IS FOLLOWED BY SUGGESTED TEACHING POSSIBILITIES FOR THE MAPPED OUTDOOR AREA. A SECTION IS INCLUDED FOR EACH GRADE LEVEL FROM K-8. THE MATERIAL FOR EACH LEVEL CONSISTS OF (1) PROBLEMS TO BE INVESTIGATED, (2) SCIENCE AND CONSERVATION CONCEPTS, AND (3) DISCUSSION QUESTIONS. SAMPLES OF DISCOVERY GUIDES AS TECHNIQUES FOR OUTDOOR INVESTIGATION ARE ALSO PRESENTED, FOLLOWED BY A LIST OF SELECTED REFERENCES. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (RS)

INSTITUTION NAME: ULSTER COUNTY BOARD OF COOPERATIVE EDUCATION SERVICES, NEW PLATZ, N.Y.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF ELEMENTARY AND SECONDARY EDUCATION.

ACCESSION NUMBERS: ED033813 RC003841

PUBLICATION DATE: APR 69

TITLE: MAPPING OF OUTDOOR CLASSROOMS.

PERSONAL AUTHOR: HORVATH, VICTOR G.

INSTITUTION CODE: BBB02582

DESCRIPTOR: *GEOGRAPHY; *MAPS; *MAP SKILLS; NATURAL RESOURCES; *OUTDOOR EDUCATION; *RESOURCE MATERIALS

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.30

DESCRIPTIVE NOTE: 4P.

ISSUE: RIEMAR70

MAPPING SYMBOLS ADOPTED BY THE MICHIGAN DEPARTMENT OF NATURAL RESOURCES ARE PRESENTED WITH THEIR EXPLANATIONS. IN AN EFFORT TO PROVIDE STANDARDIZATION AND FAMILIARITY TEACHERS AND OTHER SCHOOL PEOPLE INVOLVED IN AN OUTDOOR EDUCATION PROGRAM ARE ENCOURAGED TO UTILIZE THE SAME SYMBOLS IN CONSTRUCTING MAPS. (DK)

INSTITUTION NAME: MICHIGAN STATE DEPT. OF NATURAL RESOURCES, LANSING.

ACCESSION NUMBERS: ED033812 RC003840

PUBLICATION DATE: 68

TITLE: HOW THE OUTDOOR LABORATORY CAN BE USED AS AN INSTRUCTIONAL AID.

PERSONAL AUTHOR: RICHARDS, DONALD J.; AND OTHERS

INSTITUTION CODE: BBB02582

DESCRIPTOR: *CAMPING; CLASS ACTIVITIES; CONSERVATION EDUCATION; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL INNOVATION; *LESSON PLANS; NATURAL RESOURCES; *OUTDOOR EDUCATION; PHYSICAL EDUCATION; RESOURCE GUIDES; SCIENCE EDUCATION; SECONDARY GRADES

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.90

DESCRIPTIVE NOTE: 16P.

ISSUE: RIEMAR70

THE OUTDOOR LAB WAS PLANNED TO SERVE ALL GRADE LEVELS AND INCORPORATE ALL ASPECTS OF OUTDOOR EDUCATION. IDEAS FOR LAB AND CLASSROOM ACTIVITIES ARE PRESENTED FOR THE FOLLOWING SUBJECT AREAS: PHYSICAL EDUCATION, ELEMENTARY GRADES, PHYSICS, CHEMISTRY, MATHEMATICS, ENGLISH, INDUSTRIAL ARTS, HOME ECONOMICS, BIOLOGY, SOCIAL STUDIES, CONSERVATION, ART AND LANGUAGE. FURTHER DISCUSSION AND IDEAS ARE PRESENTED CONCERNING OUTDOOR EDUCATION THROUGH SCHOOL CAMPING, CORRELATING CONSERVATION AND OUTDOOR EDUCATION WITH SPECIFIC CONTENT AREAS AND SKILLS, AND THE UTILIZATION OF NATURAL RESOURCES. (DK)

INSTITUTION NAME: MICHIGAN STATE DEPT. OF NATURAL RESOURCES, LANSING.

ACCESSION NUMBERS: ED033797 RC003808

PUBLICATION DATE: 68

TITLE: CAMP IS A CELEBRATION.

INSTITUTION CODE: BBB02283

DESCRIPTOR: CAMPING; *COMMUNICATION SKILLS; *CONSERVATION EDUCATION; COOPERATIVES; GAMES; GROUP DYNAMICS; ILLUSTRATIONS; *INSTRUCTIONAL AIDS; *RURAL EDUCATION; *TEACHING GUIDES; TEACHING TECHNIQUES

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.65

DESCRIPTIVE NOTE: 71P.

ISSUE: RIEMAR70

A CAMPING WORKBOOK PROVIDES MATERIALS FOR USE IN DISCUSSION OF 3 IMPORTANT ASPECTS OF FARM LIVING: RURAL POWER, COMMUNICATION, AND CONSERVATION. IT IS INTENDED THAT THIS MATERIAL BE USED IN CLASS SESSIONS HELD DURING A JUNIOR YOUTH CAMP. A SAMPLE OF THE YOUTH CAMP SCHEDULE REVEALS 3 FORTY-FIVE MINUTE TIME PERIODS DURING THE DAY DESIGNATED AS CLASS PERIODS. THE MATERIALS PRESENTED IN THIS WORKBOOK, IN DESCRIPTIVE AND ILLUSTRATIVE FORM, ARE SUGGESTED AIDS AND METHODS THAT MIGHT BE UTILIZED BY CAMP TEACHERS IN THE CLASSES. INCLUDED IN THIS TEACHER'S GUIDE ARE TEACHING HINTS, SUGGESTED TEACHING METHODS, IDEAS ABOUT TEACHING AIDS, AND A LIST OF RELATED GAMES. (DB)

INSTITUTION NAME: NORTH DAKOTA FARMERS UNION, JAMESTOWN. DEPT. OF YOUTH ACTIVITIES.

ACCESSION NUMBERS: ED033796 RC003807

298

PUBLICATION DATE: 69

TITLE: PATHWAYS TO...BETTER EDUCATION.

INSTITUTION CODE: BBB01395

DESCRIPTOR: *CURRICULUM GUIDES; *CURRICULUM PLANNING; *ENVIRONMENTAL EDUCATION; *HUMAN RESOURCES; INSERVICE EDUCATION; LEARNING ACTIVITIES; LEISURE TIME; NATURAL RESOURCES; *OUTDOOR EDUCATION; TEACHER ROLE

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.45

DESCRIPTIVE NOTE: 7P.

ISSUE: RIEMAR70

OUTDOOR EDUCATION IN THE EDUCATIONAL CURRICULUM HAS BECOME INCREASINGLY IMPORTANT BECAUSE OF THE RAPID EXTENSION OF URBANIZATION AND MODERN TECHNOLOGY. IT IS THE SCHOOL'S RESPONSIBILITY TO EDUCATE CITIZENS FOR THE WORTHY USE OF LEISURE TIME AND TO USE AND ENJOY NATURAL RESOURCES, MAN-MADE RESOURCES, OR COMBINED RESOURCES. PROPERLY CONCEIVED, OUTDOOR EDUCATION CAN CONTRIBUTE SIGNIFICANTLY TO THE QUALITY OF EDUCATIONAL OFFERING AS WELL AS IMPROVE TEACHER-PUPIL RELATIONSHIPS. SOME RESOURCES THAT CAN ENRICH THE TEACHING-LEARNING PROCESS ARE SCHOOL GROUNDS, BUILDINGS, TELEPHONE AND FLAG POLES, STREETS, GARDENS, FARMS, MINES, AND CAMP AREAS. SINCE IT IS A LESS FORMAL APPROACH TO LEARNING, PRE-TRIP PLANNING AND PREPARATION AND POST-TRIP FOLLOW-UP ARE IMPORTANT. SPECIFIC OBJECTIVES MUST BE CAREFULLY PLANNED TO MEET THE NEEDS AND INTERESTS OF THE PUPILS IN THE SCHOOL AND THE COMMUNITY. THE TEACHER MUST ENJOY THE OUT-OF-DOORS AND BE WILLING TO LEARN. SPECIALISTS IN VARIOUS AREAS MAY ALSO CONTRIBUTE TO ASPECTS OF THE PROGRAM. (CM)

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ALBANY. STATE EDUCATIONAL DEPT.

ACCESSION NUMBERS: ED033788 RC003792

PROGRAM AREA: 88

PUBLICATION DATE: 68

TITLE: CONSERVATION AND ENVIRONMENTAL SCIENCE CENTER FOR SOUTHERN NEW JERSEY; TEACHER'S WORKSHOP HANDBOOK FOR RESIDENT PROGRAMS.

INSTITUTION CODE: BBB02579

SPONSORING AGENCY CODE: BBB00081

DESCRIPTOR: CONSERVATION EDUCATION; CURRICULUM PLANNING; *ENVIRONMENTAL EDUCATION; GUIDELINES; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; *OUTDOOR EDUCATION; *PROGRAM DEVELOPMENT; PROGRAM EVALUATION; PROGRAM PLANNING; *RESIDENT CAMP PROGRAMS; SUPPLEMENTARY EDUCATIONAL CENTERS; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.40

DESCRIPTIVE NOTE: 66P.

ISSUE: RIEMAR70

THE HANDBOOK IS DESIGNED TO ASSIST TEACHERS TO OBTAIN AN CLEAR PICTURE OF MANY KINDS OF ACTIVITIES AND PROGRAMS USED IN A RESIDENT PROGRAM FOR ENVIRONMENTAL EDUCATION. INFORMATION AND GUIDELINES ARE INCLUDED ON SUCH ITEMS AS: (1) ROLE OF THE TEACHER WHO BRINGS A CLASS TO A RESIDENT PROGRAM; (2) PREPARATION AND PLANNING PROGRAMS; (3) USE OF THE OUTDOORS AS A LEARNING ENVIRONMENT; (4) SKILLS AND KNOWLEDGES IN ENVIRONMENTAL SCIENCES AND RELATED TOPICS IN ENVIRONMENTAL EDUCATION; (5) EVALUATION OF ENVIRONMENTAL EDUCATION; AND (6) ROLE OF THE STAFF OF THE CONSERVATION AND ENVIRONMENTAL SCIENCE CENTER (CESC) IN PROVIDING SERVICES FOR EACH PARTICIPATING SCHOOL. RELATED DOCUMENTS ARE RC 003 788, RC 003 789, RC 003 790, AND RC 003 791. (SW)

REPORT NUMBER: DPSC-68-5679

AVAILABILITY: CONSERVATION AND ENVIRONMENTAL SCIENCE CENTER FOR SOUTHERN NEW JERSEY, POST OFFICE BOX 2230, BROWNS MILLS, NEW JERSEY 08015 ($1.50).

INSTITUTION NAME: CONSERVATION AND ENVIRONMENTAL SCIENCE CENTER FOR SOUTHERN NEW JERSEY, BROWN MILLS.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. DIV. OF PLANS AND SUPPLEMENTARY CENTERS.

ACCESSION NUMBERS: ED033784 RC003788

PROGRAM AREA: 88

PUBLICATION DATE: 69

TITLE: LOCAL EDUCATION AGENCY GUIDEBOOK FOR RESIDENT ENVIRONMENTAL EDUCATION PROGRAMS.

INSTITUTION CODE: BBB02579

SPONSORING AGENCY CODE: BBB00081

DESCRIPTOR: *ADMINISTRATOR GUIDES; ADMINISTRATOR ROLE; CONSERVATION EDUCATION; *ENVIRONMENTAL EDUCATION; EVALUATION METHODS; GUIDELINES; *OUTDOOR EDUCATION; PARENT ROLE; *PROGRAM GUIDES; *RESIDENT CAMP PROGRAMS; RESIDENT STUDENTS; SUPPLEMENTARY EDUCATIONAL CENTERS; TEACHER ROLE

IDENTIFIER: *CONSERVATION AND ENVIRONMENTAL SCIENCE CENTER

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.60

DESCRIPTIVE NOTE: 70P.

ISSUE: RIEMAR70

THE CONSERVATION AND ENVIRONMENTAL SCIENCE CENTER FOR SOUTHERN NEW JERSEY (CESC), AS PART OF A PROJECT SPONSORED UNDER TITLE III OF THE ELEMENTARY AND SECONDARY EDUCATION ACT OF 1965, HAS DEVELOPED THIS BOOKLET FOR ADMINISTRATORS AND TEACHERS TO AID THEM IN THE DEVELOPMENT OF A RESIDENT ENVIRONMENTAL EDUCATION PROGRAM. THIS BOOKLET CONTAINS TOPICS ON PAST, PRESENT, AND FUTURE HISTORY OF CESC; THE ROLE OF THE ADMINISTRATOR AND PARENTS; GUIDE TO THE RESIDENT CENTER; THE TEACHER'S ROLE IN MAKING ENVIRONMENTAL LITERACY A PART OF THE ON-GOING CURRICULUM; AND EVALUATING EFFECTIVENESS. PROGRAM OBJECTIVES, PROCEDURES FOR INFORMING PARENTS, SAMPLE LETTERS TO BE UTILIZED, INFORMATION FORMS TO BE UTILIZED, SUGGESTIONS FOR NEW RELEASES, SUGGESTED ACTIVITIES, TYPICAL SCHEDULES AND ASSIGNMENTS, SAMPLE MENUES, AND TECHNIQUES FOR EVALUATING BEHAVIORAL OBJECTIVES ARE PRESENTED. RELATED DOCUMENTS ARE RC 003 789, RC 003 790, RC 003 792. (SW)

REPORT NUMBER: DPSC-68-5679

AVAILABILITY: CONSERVATION AND ENVIRONMENTAL SCIENCE CENTER FOR SOUTHERN NEW JERSEY, POST OFFICE BOX 2230, BROWNS MILLS, NEW JERSEY 08015 ($1.50).

INSTITUTION NAME: CONSERVATION AND ENVIRONMENTAL SCIENCE CENTER FOR SOUTHERN NEW JERSEY, BROWN MILLS.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. DIV. OF PLANS AND SUPPLEMENTARY CENTERS.

ACCESSION NUMBERS: ED033260 AA000430

PUBLICATION DATE: JUL 69

TITLE: SCIENCE EDUCATION INFORMATION REPORT, GENERAL BIBLIOGRAPHY SERIES 26, TEACHER RESOURCE MATERIALS.

INSTITUTION CODE: RUF24927

DESCRIPTOR: AUDIOVISUAL AIDS; *BIBLIOGRAPHIES; COLLEGE SCIENCE; CONSERVATION EDUCATION; CURRICULUM GUIDES; ELEMENTARY SCHOOL SCIENCE; FILMS; FILMSTRIPS; HEALTH EDUCATION; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; PHYSICAL SCIENCES; *RESOURCE MATERIALS; SCIENCE ACTIVITIES; *SCIENCE EDUCATION; SECONDARY SCHOOL SCIENCE; TEACHING GUIDES; TELEVISED INSTRUCTION

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.95

DESCRIPTIVE NOTE: 77P.

ISSUE: RIEMAR70

THIS IS THE SIXTH IN THE THIRD SERIES OF GENERAL BIBLIOGRAPHIES DEVELOPED TO DISSEMINATE INFORMATION ON DOCUMENTS ANALYZED AT THE ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION. REPORTED ARE SOME 304 CITATIONS OF SELECTED DOCUMENTS INVOLVING TEACHER RESOURCE MATERIALS IN SCIENCE AND MATHEMATICS EDUCATION. THE DOCUMENTS INCLUDED REPRESENT RESEARCH REPORTS, RESEARCH REVIEWS, MANUALS, TEXTBOOKS AND OTHER TYPES. CITATIONS ARE LISTED IN ALPHABETICAL ORDER BY AUTHOR AND INDICATE SOURCE, AVAILABILITY, AND MAJOR IDEAS OF THE DOCUMENT. THIS BIBLIOGRAPHY UPDATES, BUT DOES NOT REPLACE, GENERAL BIBLIOGRAPHY 6 (ED 021 772) AND GENERAL BIBLIOGRAPHY 16 (ED 026 282) PRODUCED EARLIER BY THIS CENTER. (RH)

INSTITUTION NAME: ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, COLUMBUS, OHIO.

ACCESSION NUMBERS: ED033051 SE007642

PUBLICATION DATE: 68

TITLE: A GUIDE FOR TEACHING CONSERVATION EDUCATION IN THE SCHOOLS OF LOUISIANA; SOIL AND WATER SECTION. (REVISION)

PERSONAL AUTHOR: WARE, GEORGE; MCCOLLUM, HOWARD P.

INSTITUTION CODE: LJN43725

DESCRIPTOR: *CONSERVATION EDUCATION; ELEMENTARY SCHOOL SCIENCE; SCIENCE ACTIVITIES; SECONDARY SCHOOL SCIENCE; *SOIL CONSERVATION; *TEACHING GUIDES; *WATER RESOURCES

IDENTIFIER: LOUISIANA HIGH SCHOOL CONSERVATION CURRICULUM PRO

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.10

DESCRIPTIVE NOTE: 80P.

ISSUE: RIEFEB70

THIS PUBLICATION IS A REVISED EDITION OF THE TEACHERS GUIDE FOR TEACHING SOIL AND WATER CONSERVATION IN THE ELEMENTARY AND JUNIOR HIGH SCHOOLS OF LOUISIANA. THE FORMAT OF THE GUIDE INCLUDES A STATEMENT OF CONCEPT, FOLLOWED BY DISCUSSION OF THE CONCEPT, SUGGESTED ACTIVITIES, AND POSSIBLE OUTCOMES. THERE IS A GLOSSARY OF TERMS AND A SECTION THAT INCLUDES A BRIEF DESCRIPTION OF THE MAJOR LAND RESOURCE AREAS IN LOUISIANA. THE CONCEPTS INCLUDED, IN THEIR SUGGESTED TEACHING SEQUENCE, ARE: THE IMPORTANCE OF SOIL AS A RESOURCE, THE FORMATION AND MAKE-UP OF SOIL, TYPES OF SOIL, SOIL LOSSES AND DETERIORATION, THE ESSENTIAL NATURE OF WATER, WATER AS A RENEWABLE SOURCE, FLOODS, POLLUTION, WATER AS A SOURCE OF RECREATION, AND CONSERVATION OF SOIL AND WATER. (BR)

INSTITUTION NAME: LOUISIANA STATE DEPT. OF EDUCATION, BATON ROUGE.

ACCESSION NUMBERS: ED032982 RC003734

PUBLICATION DATE: 68

TITLE: CURRICULUM OVERVIEW FOR DEVELOPING ENVIRONMENTALLY LITERATE CITIZENS.

PERSONAL AUTHOR: ROTH, CHARLES E.

INSTITUTION CODE: BBB02371

SPONSORING AGENCY CODE: BBB00081

DESCRIPTOR: CONSERVATION EDUCATION; *CURRICULUM DEVELOPMENT; EDUCATIONAL OBJECTIVES; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; HUMANITIES; *LEARNING PROCESSES; NATURAL RESOURCES; OUTDOOR EDUCATION; *SCHOOL RESPONSIBILITY; *SOCIAL RESPONSIBILITY; SOCIAL SCIENCES

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.25

DESCRIPTIVE NOTE: 23P.

ISSUE: RIEFEB70

THE HEALTH OF MAN'S ENVIRONMENT IS VITAL TO THE WELL BEING OF THIS AND FUTURE GENERATIONS; YET, ABUSES THREATEN BOTH THE NATURAL AND MAN-MADE ENVIRONMENTS. THIS DOCUMENT EXPLORES THE TOTAL SCOPE OF THIS PROBLEM. THE PRIME PURPOSE OF THIS GUIDE IS TO GIVE ADMINISTRATORS, CURRICULUM PEOPLE, TEACHERS, AND INTERESTED CITIZENS A STATEMENT OF WHAT MIGHT BE CONSIDERED ESSENTIAL IN DEVELOPING ENVIRONMENTALLY LITERATE CITIZENS WHO WILL BE ABLE TO MAKE DECISIONS AND CHOICES AS PRODUCERS, CONSUMERS, VOTERS, AND RECREATIONALISTS THAT WILL SUSTAIN A LIVEABLE ENVIRONMENT. THE RESPONSIBILITY FOR DEVELOPING SUCH CITIZENS IS SEEN AS A FUNCTION OF PUBLIC EDUCATION. IT IS FELT THAT THIS CAN READILY BE INTERWOVEN INTO THE CURRICULUM WITHOUT ANY MAJOR CONTENT CHANGES. A LIST OF 179 BASIC IDEAS AND CONCEPTS RELEVANT TO ENVIRONMENT THAT COULD BE TAUGHT IN THE AREAS OF NATURAL SCIENCE, SOCIAL SCIENCE, AND HUMANITIES IS GIVEN. IN ADDITION, 10 PROCESSES FOR THE EFFECTIVE TEACHING OF THESE CONCEPTS IS PRESENTED. THIS GUIDE WAS DEVELOPED BY THE LIBERTY COUNCIL CONSERVATION EDUCATION CENTER UNDER ELEMENTARY AND SECONDARY EDUCATION ACT, TITLE III, FUNDS. (DB)

INSTITUTION NAME: LIBERTY COUNCIL OF SCHOOLS, LINCOLN, MASS. CONSERVATION EDUCATION CENTER.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. DIV. OF PLANS AND SUPPLEMENTARY CENTERS.

ACCESSION NUMBERS: ED032659 EA002616

PROGRAM AREA: 24

PUBLICATION DATE: 12 JUL 69

TITLE: CONSERVATION EDUCATION IMPROVEMENT. FINAL REPORT.

PERSONAL AUTHOR: DIEM, KENNETH L.; HENNEBRY, HOWARD M.

INSTITUTION CODE: ZYJ99000

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: AIR POLLUTION CONTROL; *CONSERVATION EDUCATION; *CURRICULUM GUIDES; EDUCATIONAL RESEARCH; *ELEMENTARY SCHOOLS; FORESTRY; HUMAN RESOURCES; INSTRUCTIONAL IMPROVEMENT; *INSTRUCTIONAL MATERIALS; *JUNIOR HIGH SCHOOLS; LAND USE; NATURAL RESOURCES; PHYSICAL ENVIRONMENT; SOIL CONSERVATION; STUDENT PROJECTS; TEACHING GUIDES; WATER RESOURCES; WILDLIFE MANAGEMENT

IDENTIFIER: WYOMING

EDRS PRICE: EDRS PRICE MF-$1.75 HC-$20.80

DESCRIPTIVE NOTE: 414P.

ISSUE: RIEFEB70

IN AN ATTEMPT TO IMPROVE THE TEACHING OF CONSERVATION IN ELEMENTARY AND JUNIOR HIGH SCHOOLS, A SET OF INTEGRATED SEQUENTIAL CORE UNITS WAS FORMULATED AND TESTED IN FIVE WYOMING SCHOOL DISTRICTS DURING THE FALL AND EARLY WINTER OF 1968. BASED ON A TOTAL SAMPLE OF 840 ELEMENTARY STUDENTS (38% USABLE RESPONSE) AND 960 JUNIOR HIGH STUDENTS (49% USABLE RESPONSE), STATISTICAL ANALYSES INDICATED THAT TEACHERS' USE OF THE GUIDES AND THEIR CLASSROOM PRESENTATIONS WERE SUCCESSFUL IN STIMULATING STUDENT INTEREST IN CONSERVATION PROBLEMS. WITH THE EXCEPTION OF THE UNIT FOR GRADE 6 ON MINERALS AND OILS, WHICH PROVED TOO DIFFICULT AND WILL REQUIRE REWRITING, CONSISTENT STUDENT TEST PERFORMANCES IN ALL SCHOOL DISTRICTS AND IN ALL OTHER GRADES INDICATED THAT THE MATERIALS ARE AT AN APPROPRIATE GRADE LEVEL OF DIFFICULTY. FINDINGS SUPPORT THE VALUE OF THE SEQUENTIAL RESOURCE UNIT APPROACH TO BOTH THE TEACHER AND THE STUDENT. IN ADDITION TO AN INTRODUCTORY GUIDE TO WYOMING'S NATURAL RESOURCES AND THEIR MANAGEMENT, COMPLETE CURRICULUM CORE UNITS FOR EACH GRADE ARE APPENDED AS FOLLOWS: (1) WILDLIFE, (2) WATER, (3) SOILS, (4) GRASSLAND, (5) FORESTS, (6) MINERALS AND OIL, (7) POLLUTION, (8) HUMAN RESOURCES, AND (9) ENVIRONMENTAL USAGE. (JK)

CONTRACT NUMBER: OEC-4-6-06188-0735

BUREAU NUMBER: BR-6-1688

INSTITUTION NAME: WYOMING UNIV., LARAMIE.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBERS: ED032443 AA000407

PUBLICATION DATE: JUL 69

TITLE: SCIENCE EDUCATION INFORMATION REPORT, GENERAL BIBLIOGRAPHY SERIES 24, CURRICULUM.

INSTITUTION CODE: RUF24927

DESCRIPTOR: *BIBLIOGRAPHIES; COLLEGE SCIENCE; CONSERVATION EDUCATION; *CURRICULUM; *CURRICULUM DEVELOPMENT; CURRICULUM GUIDES; ELEMENTARY SCHOOL SCIENCE; INSERVICE EDUCATION; INTEGRATED CURRICULUM; INTERNATIONAL EDUCATION; *MATHEMATICS EDUCATION; OUTDOOR EDUCATION; *SCIENCE EDUCATION; SECONDARY SCHOOL SCIENCE; TEACHER EDUCATION; TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$6.35

DESCRIPTIVE NOTE: 125P.

ISSUE: RIEFEB70

THIS IS THE FOURTH IN THE THIRD SERIES OF GENERAL BIBLIOGRAPHIES DEVELOPED TO DISSEMINATE INFORMATION ON DOCUMENTS ANALYZED AT THE ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION. REPORTED ARE SOME 460 CITATIONS OF SELECTED DOCUMENTS RELATED TO CURRICULUM AND CURRICULUM DEVELOPMENT IN SCIENCE AND MATHEMATICS EDUCATION. THE DOCUMENTS INCLUDED REPRESENT RESEARCH REPORTS, RESEARCH REVIEWS, MANUALS, TEXTBOOKS, AND OTHER TYPES. CITATIONS ARE LISTED IN ALPHABETICAL ORDER BY AUTHOR AND INDICATE SOURCES, AVAILABILITY, AND MAJOR IDEAS OF THE DOCUMENT. THIS BIBLIOGRAPHY UPDATES, BUT DOES NOT REPLACE, GENERAL BIBLIOGRAPHY 4 (ED 017 473) AND GENERAL BIBLIOGRAPHY 14 (ED 026 280) PRODUCED EARLIER BY THIS CENTER. (RH)

INSTITUTION NAME: ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, COLUMBUS, OHIO.

ACCESSION NUMBERS: ED032323 TE499917

PROGRAM AREA: 24

PUBLICATION DATE: 69

TITLE: MIDDLE AND SOUTH AMERICA--SOCIETIES IN TRANSITION, GRADE SIX. THE TABA SOCIAL STUDIES CURRICULUM.

PERSONAL AUTHOR: DURKIN, MARY C.; AND OTHERS

INSTITUTION CODE: BBB02286

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: AREA STUDIES; CROSS CULTURAL STUDIES; CULTURAL BACKGROUND; CULTURAL DIFFERENCES; CULTURAL INTERRELATIONSHIPS; CULTURE CONTACT; GEOGRAPHIC REGIONS; *GRADE 6; HUMAN RESOURCES; *LATIN AMERICAN CULTURE; NATURAL RESOURCES; PERSONAL VALUES; POLITICAL DIVISIONS (GEOGRAPHIC); SOCIAL PROBLEMS; *SOCIAL STUDIES UNITS; *SOCIOECONOMIC INFLUENCES; *TEACHING GUIDES; TECHNOLOGICAL ADVANCEMENT

IDENTIFIER: CENTRAL AMERICA; *SOUTH AMERICA

EDRS PRICE: EDRS PRICE MF-$1.00 HC-$10.95

DESCRIPTIVE NOTE: 217P.; A REVISION OF THE SIXTH GRADE MATERIALS IN THE CONTRA COSTA COUNTY SOCIAL STUDIES PROGRAM.

ISSUE: RIEJAN70

THE PRIMARY EMPHASIS OF THIS TEACHING GUIDE FOR A GRADE 6 SOCIAL STUDIES COURSE IS ON THE PEOPLE OF THE SOCIETIES WHICH EXIST IN MIDDLE AND SOUTH AMERICA. FIVE UNITS, EACH ORGANIZED AROUND A MAIN IDEA, ARE SUGGESTED: (1) "CULTURES CHANGE IN VARYING DEGREES WHEN THEY COME IN CONTACT WITH ANOTHER CULTURE." (2) "THOUGH ALL CULTURES POSSESS CERTAIN UNIQUE FEATURES, THEY ARE ALSO SIMILAR IN A NUMBER OF WAYS." (3) "THE HUMAN AND NATURAL RESOURCES AND GEOGRAPHIC FEATURES OF AN AREA INFLUENCE THE MATERIAL PROSPERITY OF THE PEOPLE WITHIN THAT AREA." (4) "DIFFERENT CULTURES DEAL WITH CERTAIN BASIC PROBLEMS IN A VARIETY OF WAYS." (5) "CHANGES THAT OCCUR IN ONE PART OF A SOCIETY OFTEN PRODUCE CHANGES IN OTHER PARTS OF THE SOCIETY." NOTES TO THE TEACHER, LEARNING OBJECTIVES, LEARNING ACTIVITIES, AND EVALUATION EXERCISES ARE DEVELOPED FOR EACH UNIT. TEACHING STRATEGIES FOR COGNITIVE SKILLS AND FOR ATTITUDES, VALUES, AND FEELINGS ARE GIVEN. ALSO LISTED ARE THE OBJECTIVES OF THE CURRICULUM OF WHICH THIS COURSE IS A PART, THE 11 KEY CONCEPTS EMPHASIZED THROUGHOUT IT, AND 19 BEHAVIORAL OBJECTIVES TO BE ACHIEVED DURING THE SIXTH GRADE. (LH)

CONTRACT NUMBER: OEC-6-10-182

BUREAU NUMBER: BR-5-1314

INSTITUTION NAME: SAN FRANCISCO STATE COLL., CALIF. TABA SOCIAL STUDIES

CURRICULUM PROJECT.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF

RESEARCH

ACCESSION NUMBERS: ED032321 TE499915

PROGRAM AREA: 24

PUBLICATION DATE: 69

TITLE: OUR STATE--A CHANGING SOCIETY, GRADE FOUR. THE TABA SOCIAL STUDIES CURRICULUM.

PERSONAL AUTHOR: DUVALL, ALICE; AND OTHERS

INSTITUTION CODE: BBB02286

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: *CULTURAL EXCHANGE; ECONOMIC DEVELOPMENT; ECONOMIC FACTORS; ECONOMIC OPPORTUNITIES; *ENVIRONMENTAL INFLUENCES; GOVERNMENT ROLE; *GRADE 4; HUMAN RESOURCES; IMMIGRANTS; NATURAL RESOURCES; PHYSICAL ENVIRONMENT; POPULATION GROWTH; SOCIAL CHANGE; SOCIAL ENVIRONMENT; SOCIAL PROBLEMS; *SOCIAL STUDIES UNITS; SOCIOCULTURAL PATTERNS; *TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$8.90

DESCRIPTIVE NOTE: 176P.; A REVISION OF THE FOURTH GRADE MATERIALS IN THE CONTRA COSTA COUNTY SOCIAL STUDIES PROGRAM.

ISSUE: RIEJAN70

THIS TEACHING GUIDE FOR GRADE 4 IS DESIGNED FOR THE STUDY OF ANY STATE IN THE UNITED STATES AND INVESTIGATES HOW PEOPLE FROM DIFFERENT CULTURES INTERACT IN A PARTICULAR ENVIRONMENT. THE OBJECTIVES OF THE CURRICULUM (GRADES 1-8) OF WHICH THIS GUIDE IS A PART, 11 KEY CONCEPTS DEVELOPED THROUGHOUT IT, AND 19 BEHAVIORAL OBJECTIVES, WITH RATIONALES, TO BE ACHIEVED DURING THE FOURTH GRADE ARE LISTED. THIS YEAR'S PROGRAM IS MADE UP OF THREE UNITS, EACH DEVELOPED AROUND A MAIN IDEA: (1) "THE CULTURE OF DIFFERENT PEOPLES INFLUENCES THE MANNER IN WHICH THEY USE THE SAME ENVIRONMENT." (2) "MAN'S WAY OF LIVING IS AFFECTED BY THE PHYSICAL AND SOCIAL ENVIRONMENT IN WHICH HE LIVES." (3) "AS SOCIETIES GROW, BOTH THEIR REQUIREMENTS AND THEIR PROBLEMS CHANGE." FOR EACH UNIT, LEARNING OBJECTIVES, SUGGESTED LEARNING ACTIVITIES, NOTES FOR THE TEACHER, AND EVALUATION EXERCISES ARE PROVIDED. TEACHING STRATEGIES FOR COGNITIVE SKILLS AND FOR ATTITUDES, FEELINGS, AND VALUES ARE ALSO INCLUDED. (LH)

CONTRACT NUMBER: OEC-6-10-182

BUREAU NUMBER: BR-5-1314

INSTITUTION NAME: SAN FRANCISCO STATE COLL., CALIF. TABA SOCIAL STUDIES CURRICULUM PROJECT.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBERS: ED032220 SE007478

PUBLICATION DATE: 69

TITLE: THE USE OF THE "INDOOR-OUTDOOR-INDOOR" APPROACH TO TEACHING SCIENCE CONSERVATION WITH CONCENTRATION ON METHODS OF INQUIRY AND EMPHASIS ON PROCESSES OF SCIENCE, GRADES K-3.

PERSONAL AUTHOR: BUSCH, PHYLLIS

INSTITUTION CODE: QPX88770

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: BIOLOGY; *CONSERVATION EDUCATION; DISCOVERY LEARNING; EARTH SCIENCE; *ELEMENTARY SCHOOL SCIENCE; INSTRUCTIONAL MATERIALS; *OUTDOOR EDUCATION; SCIENCE ACTIVITIES; SCIENCE COURSE IMPROVEMENT PROJECT; TEACHING GUIDES

IDENTIFIER: ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.45

DESCRIPTIVE NOTE: 27P.

ISSUE: RIEJAN70

CONTAINED ARE INSTRUCTIONAL MATERIALS DEVELOPED BY THE SCIENCE PROJECT RELATED TO UPGRADING CONSERVATION EDUCATION. THE LESSON PLANS GIVEN ARE INTENDED TO DEMONSTRATE THE "INDOOR-OUTDOOR-INDOOR" APPROACH TO TEACHING SCIENCE CONSERVATION, WITH CONCENTRATION ON METHODS OF INQUIRY AND EMPHASIS ON PROCESSES OF SCIENCE. FOUR SUBJECT AREAS ARE TREATED: AIR, WATER, AND WEATHER; LIVING THINGS; THE EARTH AND ITS COMPOSITION; AND OUR GROWING BODIES. ONE PLAN IS GIVEN FOR EACH AREA FOR EACH OF GRADES K-3. THE PLANS LIST MATERIALS REQUIRED, SET PROBLEM QUESTIONS, THEN DESCRIBE INDOOR AND OUTDOOR ACTIVITIES TO HELP STUDENTS DISCOVER ANSWERS TO THE QUESTIONS. RELEVANT SCIENCE CONCEPTS AND CONSERVATION CONCEPTS ARE LISTED. THE MANUAL ALSO LISTS THE OBJECTIVES OF "OUTDOOR DISCOVERY GUIDES," AND GIVEN AN EXAMPLE GUIDE. THERE IS A SUMMARY OF THE GOALS OF THE PROGRAM, TOGETHER WITH GENERAL GUIDELINES FOR TEACHING AND SELECTED REFERENCES FOR THE TEACHERS. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (EB)

INSTITUTION NAME: ULSTER COUNTY BOARD OF COOPERATIVE EDUCATION SERVICES, NEW PLATZ, N.Y.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF ELEMENTARY AND SECONDARY EDUCATION.

ACCESSION NUMBERS: ED032219 SE007477

PUBLICATION DATE: 69

TITLE: FINAL REPORT AND EVALUATION OF PROJECT S.P.R.U.C.E. (SCIENCE PROJECT RELATED TO UPGRADING CONSERVATION EDUCATION).

PERSONAL AUTHOR: BUSCH, PHYLLIS S.

INSTITUTION CODE: QPX88770

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: *CONSERVATION EDUCATION; *CURRICULUM DEVELOPMENT; ECOLOGY; *ELEMENTARY SCHOOL SCIENCE; EVALUATION; *INSERVICE TEACHER EDUCATION; INSTRUCTIONAL MATERIALS; JUNIOR HIGH SCHOOLS; *OUTDOOR EDUCATION; SCIENCE COURSE IMPROVEMENT PROJECT; SCIENCE CURRICULUM; TEACHER WORKSHOPS

IDENTIFIER: ELEMENTARY AND SECONDARY EDUCATION ACT TITLE III

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.50

DESCRIPTIVE NOTE: 68P.

ISSUE: RIEJAN70

PRESENTED IS AN ENVIRONMENTAL APPROACH TO ELEMENTARY SCHOOL SCIENCE TEACHING. THE INQUIRY APPROACH IS STRESSED AND OUTDOOR ACTIVITIES ARE INTEGRATED WITH CLASSROOM ACTIVITIES. A VARIETY OF CURRICULAR MATERIALS WERE DEVELOPED TO BE USED IN CONJUNCTION WITH THE NEW YORK STATE ELEMENTARY SCIENCE CURRICULUM. THE PROJECT ALSO PROVIDED WORKSHOPS FOR TEACHERS AND SUPERVISORS, CLASSROOM DEMONSTRATION LESSONS, IDENTIFICATION OF RESOURCES AROUND THE SCHOOLS, CAMP PROGRAMS, SANCTUARY PROGRAMS, NEWSLETTERS, A "SIGHT AND SOUND" PROGRAM FOR JUNIOR HIGH SCHOOL STUDENTS, AND WORKSHOPS FOR COMMUNITY GROUPS. FORMAL EVALUATION FOCUSED ON AN INTENSIVE WORKSHOP FOR URBAN TEACHERS GIVEN THROUGH ONE ACADEMIC YEAR. COMPARISON OF CLASSROOM BEHAVIOR OF THE TEACHERS BEFORE AND AFTER THE WORKSHOP INDICATED THAT THEY LEARNED TO MAKE GREATER USE OF OUTDOOR RESOURCES, AND OTHER OBSERVATIONS INDICATED THE ATTAINMENT OF OTHER OBJECTIVES OF THE PROGRAM. WORKSHOPS, INCLUDING SOME FOR PRESERVICE TEACHERS, AND OTHER PROJECT ACTIVITIES ARE DESCRIBED AND EVALUATED IN LESS DETAIL. THE PHASING OUT OF THE PROJECT IS DISCUSSED AND RECOMMENDATIONS ARE MADE FOR SIMILAR PROJECTS IN TERMS OF STAFFING, PROGRAM SCOPE, SELECTION OF TEACHERS FOR WORKSHOPS, AND EVALUATION. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (EB)

GRANT NUMBER: OEG-1-6-661522-1828

INSTITUTION NAME: ULSTER COUNTY BOARD OF COOPERATIVE EDUCATION SERVICES, NEW PLATZ, N.Y.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF ELEMENTARY AND SECONDARY EDUCATION.

ACCESSION NUMBERS: ED032182 RC003653

PUBLICATION DATE: MAR 69

TITLE: INDEX TO SELECTED OUTDOOR RECREATION LITERATURE: CITATION ITEM NUMBERS 70848-71686 (1967). VOLUME III.

INSTITUTION CODE: BBB00413; BBB00414

DESCRIPTOR: ABSTRACTS; *INDEXES (LOCATERS); *LITERATURE REVIEWS; NATURAL RESOURCES; *OUTDOOR EDUCATION; PROGRAM ADMINISTRATION; PUBLICATIONS; *RECREATION; RESEARCH REVIEWS (PUBLICATIONS); RESOURCE MATERIALS

EDRS PRICE: EDRS PRICE MF-$1.00 HC-$11.85

DESCRIPTIVE NOTE: 235P.

ISSUE: RIEJAN70

THIS INDEX TO MATERIALS RECEIVED BY THE DEPARTMENT OF THE INTERIOR IN LATE 1967 AND EARLY 1968 CONTAINS 833 ABSTRACTS OF TECHNICAL ARTICLES, BOOKS, CONFERENCE PROCEEDINGS, DIRECTORIES, DOCUMENTS, REPORTS, SPEECHES, YEARBOOKS, AND BIBLIOGRAPHIES OF OUTDOOR RECREATION LITERATURE. MATERIALS ARE ARRANGED UNDER 5 SUBJECT CATEGORIES: (1) OUTDOOR RECREATION RESOURCES; (2) ADMINISTRATION OF RESOURCES AND PROGRAMS; (3) RECREATION USERS, DEMANDS, AND VALUES; (4) RESEARCH; AND (5) HISTORY AND PHILOSOPHY. CITED MATERIALS ARE CROSS-REFERENCED BY SUBJECT, AUTHOR, AND GEOGRAPHIC INDEX. APPENDICES INCLUDE LISTINGS OF THE INDEXED MATERIALS BY TYPE OF PUBLICATION. RELATED DOCUMENTS ARE ED 022 592 AND ED 022 593. (TL)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. BUREAU OF OUTDOOR RECREATION.; DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. LIBRARY.

ACCESSION NUMBERS: ED032178 RC003646

PUBLICATION DATE: 69

TITLE: MIGRANT CHILDREN...OUTDOOR EDUCATION'S ROLE IN LANGUAGE DEVELOPMENT.

PERSONAL AUTHOR: STAPP, WILLIAM B.; AND OTHERS

INSTITUTION CODE: RUF67030

DESCRIPTOR: CURRICULUM DEVELOPMENT; ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL INFLUENCES; INSTRUCTIONAL MATERIALS; LANGUAGE ARTS; *LANGUAGE DEVELOPMENT; LANGUAGE HANDICAPS; *LEARNING ACTIVITIES; *MIGRANT CHILDREN; *OUTDOOR EDUCATION; TEACHER ATTITUDES; TEACHING TECHNIQUES; VOCABULARY DEVELOPMENT

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.55

DESCRIPTIVE NOTE: 29P.; PRESENTATIONS GIVEN AT WORKSHOP HELD AT THE GLEN HELEN OUTDOOR EDUCATION CENTER (YELLOW SPRINGS, OHIO, MAY 8-10, 1969).

ISSUE: RIEJAN70

FOUR PRESENTATIONS WERE GIVEN AT A WORKSHOP CONDUCTED TO CONSIDER WAYS IN WHICH OUTDOOR EDUCATION ACTIVITIES COULD BE UTILIZED IN THE TEACHING OF LANGUAGE SKILLS TO MIGRANT CHILDREN. DR. WILLIAM B. STAPP, UNIVERSITY OF MICHIGAN, DISCUSSES THE NEED FOR AND MAJOR OBJECTIVES OF ENVIRONMENTAL EDUCATION, AND SUGGESTS POINTS TO CONSIDER IN RELATION TO THE CURRICULUM. DR. THOMAS M. STEPHENS, UNIVERSITY OF PITTSBURGH, DISCUSSES METHODS OF USING ENVIRONMENTAL CONDITIONS FOR LANGUAGE ACQUISITION. EMPHASIS IS PLACED ON EXTERNAL CONDITIONS WHICH INFLUENCE LEARNING, I. E., TEACHER ATTITUDES, INSTRUCTIONAL SKILLS, AND STIMULI AVAILABLE FOR RESPONDING BEHAVIOR. INSTRUCTIONAL MATERIALS FOR OUTDOOR EDUCATION IS TREATED BY DR. CARL S. JOHNSON OF OHIO STATE UNIVERSITY. HE ALSO LISTS RECOMMENDATIONS FOR TEACHERS SEEKING MATERIALS FOR OUTDOOR EDUCATION. DR. MARY HARBAGE, WRIGHT STATE UNIVERSITY, RELATES OUTDOOR EDUCATION TO LANGUAGE ARTS OFFERING VARIOUS SUGGESTIONS FOR CREATING LEARNING OPPORTUNITIES. POSSIBILITIES FOR DEVELOPING OUTDOOR EDUCATION CONCEPTS ON SCHOOL GROUNDS ARE GIVEN. (CM)

INSTITUTION NAME: OHIO STATE BOARD OF EDUCATION, COLUMBUS.

ACCESSION NUMBERS: ED031303 PS002012

PUBLICATION DATE: 69

TITLE: A STUDY OF THE INTERRELATIONSHIPS OF CONSERVATION OF LENGTH RELATIONS, CONSERVATIONS OF LENGTH, AND TRANSITIVITY OF LENGTH RELATIONS OF THE AGE OF FOUR AND FIVE YEARS.

PERSONAL AUTHOR: CAREY, RUSSEL L.; STEFFE, LESLIE P.

INSTITUTION CODE: IEE29100

DESCRIPTOR: COGNITIVE DEVELOPMENT; COGNITIVE PROCESSES; *CONCEPT FORMATION; *CONCEPT TEACHING; *CONSERVATION (CONCEPT); GEOMETRIC CONCEPTS; LOGICAL THINKING; *PRESCHOOL CHILDREN

IDENTIFIER: PIAGET

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.80

DESCRIPTIVE NOTE: 14P.; PAPER PRESENTED AT THE ANNUAL MEETING OF THE AMERICAN EDUCATIONAL RESEARCH ASSOCIATION, LOS ANGELES, CALIF., FEBRUARY, 1969

ISSUE: RIEDEC69

THREE UNITS OF INSTRUCTION WERE GIVEN TO 20 FOUR-YEAR-OLD CHILDREN AND 34 FIVE-YEAR-OLD CHILDREN. UNIT I WAS DESIGNED TO DEVELOP THE CHILDREN'S ABILITY TO ESTABLISH A LENGTH RELATION BETWEEN CURVED LINES; UNIT II, TO DEVELOP ABILITY TO CONSERVE LENGTH; AND UNIT III, TO DEVELOP ABILITY TO CONSERVE LENGTH RELATIONS. TESTING OF THE CHILDREN OCCURRED BETWEEN UNITS I AND II, AND AFTER UNIT III. THREE TESTS WERE ADMINISTERED DURING THE TESTING SESSION: (1) A SIX-ITEM TEST DESIGNED TO MEASURE THE CHILDREN'S ABILITY TO CONSERVE LENGTH; (2) AN 18-ITEM TEST TO MEASURE THE CHILDREN'S ABILITY TO CONSERVE LENGTH RELATIONS; AND (3) A SIX-ITEM TEST TO MEASURE THE CHILDREN'S ABILITY TO DEAL WITH TRANSITIVITY OF LENGTH. THE TEST RESULTS INDICATED THAT (1) THE ABILITY TO CONSERVE LENGTH AS MEASURED IN THIS STUDY IS NOT A NECESSARY OR SUFFICIENT CONDITION FOR THE ABILITY TO USE TRANSITIVITY OF LENGTH; (2) ABILITY TO CONSERVE LENGTH RELATIONS MAY BE NECESSARY FOR TRANSITIVITY; AND (3) ABILITY TO CONSERVE LENGTH IS NOT A NECESSARY OR SUFFICIENT CONDITION FOR CONSERVATION OF LENGTH RELATIONS. (WD)

INSTITUTION NAME: GEORGIA UNIV., ATHENS.

ACCESSION NUMBERS: ED031565 VT008486

PUBLICATION DATE: DEC 68

TITLE: WATER AND WASTEWATER TECHNOLOGY: A SUGGESTED 2-YEAR POST HIGH SCHOOL CURRICULUM.

INSTITUTION CODE: FGK21460

SPONSORING AGENCY CODE: RMQ66020

DESCRIPTOR: BIBLIOGRAPHIES; COURSE DESCRIPTIONS; CURRICULUM; CURRICULUM GUIDES; EDUCATIONAL EQUIPMENT; EDUCATIONAL FACILITIES; *ENVIRONMENTAL TECHNICIANS; HEALTH PERSONNEL; *POST SECONDARY EDUCATION; PROGRAM ADMINISTRATION; PROGRAM COSTS; PROGRAM DEVELOPMENT; *PROGRAM GUIDES; *TECHNICAL EDUCATION; *WATER RESOURCES

IDENTIFIER: *WATER AND WASTE WATER TECHNOLOGY

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 141P.

ISSUE: RIEDEC69

THIS CURRICULUM GUIDE WITH ACCOMPANYING COURSE OUTLINES WAS DEVELOPED BY TECHNICAL EDUCATION SPECIALISTS FOR TEACHER USE IN CONDUCTING COURSES OF INSTRUCTION FOR THE PREPARATION OF WATER AND WASTEWATER TECHNICIANS. THE CONTENT OBJECTIVES ARE TO PROVIDE STUDENTS WITH A BACKGROUND OF KNOWLEDGE IN THE DIVERSE AREAS OF APPLIED SANITATION WHICH RELATE TO WATER AND WASTEWATER: A FOUNDATION IN MICROBIOLOGY AND BASIC HYDRAULICS, SANITARY CHEMISTRY AND BIOLOGY, WATER SUPPLY AND WASTEWATER COLLECTION, WATER PURIFICATION, WASTEWATER TREATMENT, AND WATER POLLUTION CONTROL. THE MATERIAL IS TO BE USED OVER A 2-YEAR PERIOD OF SYSTEMATIC INSTRUCTION AT THE POST SECONDARY LEVEL OF EDUCATION. TEACHERS OF SANITATION SUBJECTS MUST HAVE SPECIAL COMPETENCIES DERIVED FROM TRAINING IN TECHNICAL SUBJECT MATTER, PRACTICE, AND INSTRUCTIONAL EXPERIENCE. STUDENTS SHOULD BE HIGH SCHOOL GRADUATES WITH REASONABLE MATURITY AND SERIOUSNESS OF PURPOSE AND WHOSE EDUCATIONAL BACKGROUNDS INCLUDE CHEMISTRY, PHYSICS, AND MATHEMATICS, INCLUDING ALGEBRA AND GEOMETRY. IN ADDITION TO A 265-ENTRY BIBLIOGRAPHY OF TEXT AND REFERENCES, INFORMATION ON TECHNICAL EDUCATION PROCEDURE, FACILITIES, EQUIPMENT AND COST, AND SCIENTIFIC AND TECHNICAL SOCIETIES IS INCLUDED. (CH)

REPORT NUMBER: OE-80057

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (FS5.280.80057, $1.50)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. DIV. OF

ACCESSION NUMBERS: ED031297 PS001985

PUBLICATION DATE: FEB 69

TITLE: SUCCESSFUL NUMBER CONSERVATION TRAINING.

PERSONAL AUTHOR: BLUM, ABRAHAM H.; ADCOCK, CAROLYN

DESCRIPTOR: COGNITIVE DEVELOPMENT; CONCEPT TEACHING; *CONSERVATION (CONCEPT); GRADE 1; GRADE 2; MATHEMATICAL CONCEPTS; MATHEMATICS EDUCATION; *NUMBER CONCEPTS; *TEACHING TECHNIQUES

IDENTIFIER: PIAGET

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.40

DESCRIPTIVE NOTE: 6P.; PAPER PRESENTED AT THE ANNUAL MEETING OF THE AMERICAN EDUCATIONAL AND RESEARCH ASSOCIATION, LOS ANGELES, CALIFORNIA, FEBRUARY, 1969

ISSUE: RIEDEC69

TO INVESTIGATE THE EFFICACY OF A TRAINING PROCEDURE DESIGNED TO FACILITATE THE ATTAINMENT OF THE MATHEMATICAL CONCEPT OF NUMBER CONSERVATION, 43 CHILDREN FROM GRADES 1 AND 2 WERE TESTED FOR THEIR ABILITY TO CONSERVE. SOME OF THE PUPILS WERE FOUND TO BE NONCONSERVERS; SOME, TRANSITIONAL CONSERVERS; AND SOME, CONSERVERS. PUPILS OF THE FIRST TWO GROUPS WERE DIVIDED INTO A TRAINING AND CONTROL GROUP. THE TRAINING GROUP RECEIVED SPECIAL SESSIONS DEALING WITH NUMBER CONSERVATION; THE CONTROL GROUP DID NOT. IT WAS FOUND THAT ALTHOUGH THE OLDER CHILDREN HAD MORE INITIAL CONSERVERS, BOTH THE YOUNGER AND OLDER CHILDREN RESPONDED SIMILARLY TO THE TRAINING PROGRAM. THE TRAINING GROUP CHILDREN ALL LEARNED HOW TO CONSERVE. THE CONTROL GROUP REMAINED GENERALLY UNABLE TO PERFORM CONSERVATION TASKS. RETESTING INDICATED THAT THE ABILITIES GAINED FROM THE TRAINING SESSIONS WERE SURPRISINGLY PERMANENT. (WD)

ACCESSION NUMBERS: ED029483 EF003353

PUBLICATION DATE: SEP 68

TITLE: NATURE CENTERS AND OUTDOOR EDUCATION FACILITIES.

INSTITUTION CODE: QPX56360

DESCRIPTOR: CONSERVATION EDUCATION; *EDUCATIONAL FACILITIES; EDUCATION SERVICE CENTERS; NATURAL SCIENCES: *NATURE CENTERS; *OUTDOOR EDUCATION; SCIENCE TEACHING CENTERS

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.70

DESCRIPTIVE NOTE: 32P.

ISSUE: RIEOCT69

THE OBJECTIVE IN THE COMPILATION OF THE INFORMATION IS TO REACH INDIVIDUALS, GROUPS OR CLUBS DEVOTED TO CONSERVATION WHO MAY WISH TO VISIT NATURE CENTERS IN THEIR VICINITY. IN ADDITION, SCHOOL OFFICIALS CONTEMPLATING OUTDOOR EDUCATION PROJECTS FOR THEIR STUDENTS ARE MADE AWARE OF THE LOCATION OF SUCCESSFUL, FULL-TIME PROGRAMS. THIS LIST IS AN ENCOURAGEMENT TO THE CONSERVATION-MINDED AS EVIDENCE OF THE ACCOMPLISHMENTS IN COMMUNITY NATURE CENTER PLANNING, AND CAN BE USED BY SCHOOLS AND COLLEGES AS A SOURCE OF REFERENCE FOR INFORMATION ON OUTDOOR EDUCATION PROGRAMS. (RK)

AVAILABILITY: NATIONAL AUDUBON SOCIETY, NATURE CENTERS DIVISION, 1130 FIFTH AVENUE, NEW YORK, N.Y. 10028 ($1.00)

INSTITUTION NAME: NATIONAL AUDUBON SOCIETY, NEW YORK, N.Y.

ACCESSION NUMBERS: ED029121 VT008129

PUBLICATION DATE: FEB 69

TITLE: MANPOWER REQUIREMENTS FOR POLLUTION CONTROL AND WATER RESOURCES IN INDIANA AND A RELATED POLLUTION CONTROL TECHNOLOGY CURRICULUM. MANPOWER REPORT 69-1.

INSTITUTION CODE: BBB00237

DESCRIPTOR: *AIR POLLUTION CONTROL; ASSOCIATE DEGREES; *CURRICULUM DESIGN; EDUCATIONAL NEEDS; EMPLOYMENT OPPORTUNITIES; EMPLOYMENT PROJECTIONS; MANPOWER NEEDS; *OCCUPATIONAL SURVEYS; PROFESSIONAL OCCUPATIONS; QUESTIONNAIRES; STATE SURVEYS; *TECHNICAL EDUCATION; TECHNICAL OCCUPATIONS; *WATER RESOURCES

IDENTIFIER: *INDIANA

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.60

DESCRIPTIVE NOTE: 70P.

ISSUE: RIESEP69

THE PURPOSE OF THIS STUDY WAS TO IDENTIFY THE TRAINED MANPOWER NEEDED TO COPE WITH INDIANA'S MOUNTING PROBLEMS IN AIR AND WATER POLLUTION CONTROL, LIQUID AND SOLID WASTE DISPOSAL, AND WATER SUPPLY AND RESOURCES. THIS REPORT CONTAINS DATA CONCERNING THE PRESENT EMPLOYMENT, CURRENT JOB OPPORTUNITIES, AND PROJECTED MANPOWER NEEDS FOR RELATED PROFESSIONAL AND TECHNICIAN LEVEL OCCUPATIONS. INCLUDED ARE DETAILS OF A PROPOSED ASSOCIATE DEGREE PROGRAM DESIGNED TO PREPARE POLLUTION CONTROL TECHNICIANS. A 22-ITEM SELECTED BIBLIOGRAPHY, SAMPLE COPY OF THE QUESTIONNAIRE USED, APPENDIXES AND NUMEROUS STATISTICAL TABLE S ARE INCLUDED IN THE REPORT. (CH)

AVAILABILITY: OFFICE OF MANPOWER STUDIES, PURDUE UNIVERSITY, LAFAYETTE, INDIANA 47907 ($1.50).

INSTITUTION NAME: PURDUE UNIV., LAFAYETTE, IND. OFFICE OF MANPOWER STUDIES.

ACCESSION NUMBERS: ED028957 SE006736

PUBLICATION DATE: 69

TITLE: EVALUATION OF MOBILE SCIENCE LABORATORY, FINAL REPORT.

PERSONAL AUTHOR: CARPENTER, CHARLES D.

INSTITUTION CODE: BBB01721

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: BIOLOGICAL SCIENCES; CONSERVATION EDUCATION; *EDUCATIONAL PROGRAMS; *ELEMENTARY SCHOOL SCIENCE; EVALUATION; *INSTRUCTION; OUTDOOR EDUCATION; *SCIENCE FACILITIES; SCIENCE LABORATORIES; *SECONDARY SCHOOL SCIENCE; SUMMER PROGRAMS

EDRS PRICE: EDRS PRICE MF-$1.00 HC-$12.55

DESCRIPTIVE NOTE: 249P.

ISSUE: RIESEP69

EVALUATED WAS THE EDUCATIONAL MERIT OF A MOBILE SCIENCE LABORATORY. THE METHODOLOGY USED FOR EVALUATION WAS THE PLANNING ASSISTANCE THROUGH TECHNICAL EVALUATION OF RELEVANCE NUMBERS (PATTERN) SYSTEM. THE PROGRAM UTILIZING THE MOBILE LABORATORY WAS SHOWN TO INDUCE BEHAVIORAL CHANGES IN STUDENTS, MOTIVATE THEM, AND CREATE INTEREST AND EXCITEMENT ABOUT SCIENCE. THE REPORT DESCRIBES THE HISTORY, FUNDING, EQUIPMENT, AND EVALUATION OF THE PROGRAM, SUMMARIZES RESULTS OF THE STUDY, AND PRESENTS A LIST OF RECOMMENDATIONS. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (GR)

REPORT NUMBER: DPSC-66-1057

INSTITUTION NAME: ALBERT LEA PUBLIC SCHOOL DISTRICT 241, MINN.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF ELEMENTARY AND SECONDARY EDUCATION.

ACCESSION NUMBERS: ED028924 SE005912

PUBLICATION DATE: 68

TITLE: FREE AND INEXPENSIVE TEACHING AIDS FOR SCIENCE EDUCATION.

PERSONAL AUTHOR: BEUSCHLEIN, MURIEL

INSTITUTION CODE: JIM13990

DESCRIPTOR: CONSERVATION EDUCATION; *DIRECTORIES; ELEMENTARY SCHOOL SCIENCE; GENERAL SCIENCE; HEALTH EDUCATION; *INSTRUCTIONAL MATERIALS; PHYSICAL SCIENCES; *RESOURCE MATERIALS; SCIENCE CAREERS; SECONDARY SCHOOL SCIENCE

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 55P.

ISSUE: RIESEP69

PROVIDED IS A DIRECTORY TO FREE AND INEXPENSIVE SOURCES OF MATERIALS FOR USE IN ELEMENTARY AND SECONDARY SCHOOL SCIENCE INSTRUCTION. THIS IS A COMPLETE AND UPDATED REVISION OF TWO SIMILAR LISTS PUBLISHED PREVIOUSLY (1949 AND 1959) IN THE "CHICAGO SCHOOLS JOURNAL." THE SOURCE CITATIONS ARE CATEGORIZED UNDER TERMS COMMONLY USED TO SUBDIVIDE THE PHYSICAL, BIOLOGICAL, AND APPLIED SCIENCE AREAS. EACH SOURCE CITATION INCLUDES (1) A COMPLETE ADDRESS, (2) TITLE(S) OF MATERIAL(S) AVAILABLE, (3) THE COST OF MATERIAL(S), AND (4) THE AVAILABILITY OF A PUBLICATION LIST. (DS)

AVAILABILITY: CHICAGO STATE COLLEGE, 6800 SOUTH STEWART AVENUE, CHICAGO, ILLINOIS 60621

INSTITUTION NAME: CHICAGO STATE COLL., ILL.

ACCESSION NUMBERS: ED028822 PS001688

PUBLICATION DATE: 9 FEB 69

TITLE: INDUCING CONSERVATION OF NUMBER, WEIGHT, VOLUME, AREA, AND MASS IN PRE-SCHOOL CHILDREN.

PERSONAL AUTHOR: YOUNG, BEVERLY S.

INSTITUTION CODE: JX038720

DESCRIPTOR: *CONCEPT TEACHING; *CONSERVATION (CONCEPT); *EXPERIMENTAL PROGRAMS; GEOMETRIC CONCEPTS; INTELLIGENCE QUOTIENT; NUMBER CONCEPTS; PRESCHOOL CHILDREN; PRESCHOOL LEARNING; *PRESCHOOL PROGRAMS; WEIGHT

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.65

DESCRIPTIVE NOTE: 11P.; PAPER PRESENTED AT THE ANNUAL MEETING OF THE AMERICAN EDUCATIONAL RESEARCH ASSOCIATION, LOS ANGELES, CALIFORNIA, FEBRUARY 9, 1969

ISSUE: RIESEP69

THE MAJOR QUESTION THIS STUDY ATTEMPTED TO ANSWER WAS, "CAN CONSERVATION OF NUMBER, AREA, WEIGHT, MASS, AND VOLUME TO BE INDUCED AND RETAINED BY 3- AND 4-YEAR-OLD CHILDREN BY STRUCTURED INSTRUCTION WITH A MULTIVARIATE APPROACH? THREE NURSERY SCHOOLS IN IOWA CITY SUPPLIED SUBJECTS FOR THIS STUDY. THE INSTITUTE OF CHILD BEHAVIOR AND DEVELOPMENT CONTRIBUTED 80 CHILDREN; THE UNIVERSITY PARENTS COOPERATIVE PRE-SCHOOL CONTRIBUTED 52; AND IOWA CITY MONTESSORI NURSERY SCHOOL FURNISHED 53. THE INSTITUTE WAS SELECTED AS THE CONTROL GROUP; THE UNIVERSITY PARENTS COOPERATIVE PRE-SCHOOL COMPRISED THE EXPERIMENTAL GROUP, AND THE MONTESSORI NURSERY SCHOOL CHILDREN WERE USED FOR THE PILOT STUDY. AN INDIVIDUAL STANFORD-BINET INTELLIGENCE TEST, A CRITERION PRETEST, AND A POSTTEST WERE ADMINISTERED. CRITERION SCORES WERE BASED ON ONE OF TWO EQUIVALENT FORMS, EACH CONTAINING A 57-ITEM CONSERVATION TEST, ONE TEST OF ROTE COUNTING, ONE TEST OF RATIONAL COUNTING, AND A RATING OF ATTENTIVENESS. THE EXPERIMENTAL GROUP SHOWED A SIGNIFICANT GAIN OVER THEIR OWN PRETEST SCORES IN EVERY SUBTEST EXCEPT ONE. THE ANALYSIS INDICATED THAT GAINS BY THE EXPERIMENTAL GROUP IN 16 OF THE 17 SUBTESTS WERE SIGNIFICANTLY GREATER THAN GAINS BY THE CONTROL GROUP. THE RESULTS SHOWED CONCLUSIVELY THAT THE CONCEPTS COULD BE LEARNED BY 3- AND 4-YEAR-OLD CHILDREN. (DO)

INSTITUTION NAME: IOWA STATE UNIV. OF SCIENCE AND TECHNOLOGY, AMES. INDUSTRIAL RELATIONS CENTER.

ACCESSION NUMBERS: ED028273 VT007903

PUBLICATION DATE: 68

TITLE: DESCRIPTIONS AND SOURCE LISTINGS OF PROFESSIONAL INFORMATION IN AGRICULTURAL EDUCATION, 1966-67, 1967-68, AND 1968-69.

INSTITUTION CODE: BBB01560

DESCRIPTOR: *AGRICULTURAL EDUCATION; AGRICULTURAL ENGINEERING; AGRONOMY; ANIMAL SCIENCE; *ANNOTATED BIBLIOGRAPHIES; CONSERVATION EDUCATION; CURRICULUM DEVELOPMENT; FARM MANAGEMENT; FORESTRY; GUIDANCE; *INSTRUCTIONAL MATERIALS; OFF FARM AGRICULTURAL OCCUPATIONS; ORNAMENTAL HORTICULTURE; *RESOURCE MATERIALS; SUPERVISED FARM PRACTICE; SUPERVISION; TEACHER EDUCATION; WORK EXPERIENCE PROGRAMS

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.60

DESCRIPTIVE NOTE: 70P.

ISSUE: RIEAUG69

THESE ANNOTATED BIBLIOGRAPHIES CONTAIN A TOTAL OF 449 REFERENCES OF PROFESSIONAL INFORMATION IN AGRICULTURAL EDUCATION PUBLISHED ANNUALLY. REFERENCES ARE ORGANIZED UNDER HEADINGS OF: (1) AGRICULTURAL MECHANICS, (2) ANIMAL SCIENCE, (3) CONSERVATION AND FORESTRY, (4) CURRICULUM DEVELOPMENT AND COURSE OF STUDY, (5) FARM BUSINESS MANAGEMENT AND MARKETING, (6) GUIDANCE AND OCCUPATIONAL OPPORTUNITIES, (7) OCCUPATIONAL EXPERIENCE PROGRAMS, (8) OFF-FARM AGRICULTURAL OCCUPATIONS AND BUSINESS, (9) ORNAMENTAL HORTICULTURE, (10) PLANT SCIENCE AND SOILS, (11) SUPERVISION AND TEACHER EDUCATION, (12) TEACHING AIDS AND MATERIALS, AND (13) MISCELLANEOUS. THE ANNOTATION FOR EACH DOCUMENT STATES THE AVAILABILITY AND PRICE. (DM)

INSTITUTION NAME: AMERICAN VOCATIONAL ASSOCIATION, WASHINGTON, D.C. PROFESSIONAL INFORMATION COMMITTEE.

ACCESSION NUMBERS: ED028268 VT007878

PUBLICATION DATE: NOV 68

TITLE: FOREST TECHNOLOGY; A SUGGESTED 2-YEAR POST-HIGH SCHOOL CURRICULUM.

INSTITUTION CODE: RMQ66000

DESCRIPTOR: *AGRICULTURAL EDUCATION; *AGRICULTURAL TECHNICIANS; CURRICULUM GUIDES; EDUCATIONAL EQUIPMENT; EDUCATIONAL FACILITIES; *FORESTRY; OCCUPATIONAL INFORMATION; PROGRAM ADMINISTRATION; PROGRAM CONTENT; PROGRAM DEVELOPMENT; *PROGRAM GUIDES; RESOURCE MATERIALS; *TECHNICAL EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 151P.

ISSUE: RIEAUG69

DEVELOPED BY EDUCATORS, PROFESSIONAL FORESTERS, EMPLOYERS, AND U.S. OFFICE OF EDUCATION PERSONNEL, THIS CURRICULUM GUIDES WAS DESIGNED TO ASSIST SCHOOL ADMINISTRATORS, ADVISORY COMMITTEES, SUPERVISORS, AND TEACHERS IN PLANNING AND DEVELOPING NEW PROGRAMS OR EVALUATING EXISTING PROGRAMS IN FOREST TECHNOLOGY. THE CONTENT INCLUDES SECTIONS ON: (1) THE TECHNICIAN'S WORK, EDUCATION, AND OPPORTUNITIES, (2) GENERAL PROGRAM CONSIDERATIONS, (3) FACULTY, (4) STUDENT SELECTION AND SERVICES, (5) FOREST LAND, LABORATORY EQUIPMENT, AND FACILITIES, (6) TEXTBOOKS, REFERENCES, AND VISUAL AIDS, (7) SCIENTIFIC AND TECHNICAL SOCIETIES AND ASSOCIATIONS, (8) ADVISORY COMMITTEES AND SERVICES, (9) THE CURRICULUM, (10) COURSE OUTLINES, (11) THE LIBRARY, (12) FACILITIES, EQUIPMENT, AND COST, AND (13) BIBLIOGRAPHY. OUTLINES ARE INCLUDED FOR 12 TECHNICAL COURSES, THREE MATHEMATICS AND SCIENCE COURSES, FIVE SUPPORTING TECHNICAL COURSES, AND FOUR GENERAL COURSES. THE APPENDIX INCLUDES A SELECTED LIST OF ORGANIZATIONS AND ASSOCIATIONS PERTINENT TO THE EDUCATION OF FOREST TECHNICIANS. THIS IS A REVISION OF ED 021 063. (DM)

REPORT NUMBER: OE-800054

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (FS5.280:80054, $1.25)

INSTITUTION NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

ACCESSION NUMBERS: ED028086 SE006275

PROGRAM AREA: 88

PUBLICATION DATE: AUG 68

TITLE: A CLASSROOM TEACHING AND RESOURCE GUIDE IN CONSERVATION EDUCATION.

PERSONAL AUTHOR: BARNHART, WILLIAM M.

INSTITUTION CODE: BBB01448

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: BIBLIOGRAPHIES; BIOLOGICAL SCIENCES; *CONSERVATION EDUCATION; EARTH SCIENCE; *ECOLOGY; *INSTRUCTIONAL MATERIALS; *SECONDARY SCHOOL SCIENCE; *TEACHING GUIDES

IDENTIFIER: ELEMENTARY AND SECONDARY EDUCATION ACT OF 1965; TITLE 3

EDRS PRICE: EDRS PRICE MF-$1.00 HC-$12.85

DESCRIPTIVE NOTE: 255P.

ISSUE: RIEAUG69

IN THIS TEACHING GUIDE THE NATURAL AND SOCIAL SCIENCES ARE INTEGRATED WITH AN EMPHASIS ON CONSERVATION AND ECOLOGY. THE GUIDE CONTAINS TEN TEACHING UNITS DEALING WITH VARIOUS PHYSICAL AND BIOLOGICAL ASPECTS OF THE ENVIRONMENT. UNIT ONE DEALS WITH THE QUESTION OF WHAT IS CONSERVATION. UNIT TWO IS CONCERNED WITH THE QUESTION OF WHAT IS A NATURAL RESOURCE. UNITS THREE THROUGH NINE DEAL RESPECTIVELY WITH ENERGY, MINERALS, SOIL, WATER, AIR, PLANTS, AND ANIMALS. UNIT TEN IS ENTITLED, "HUMAN RESOURCES." THERE ARE MORE ACTIVITIES AND INFORMATION IN THE GUIDE THAN ONE TEACHER COULD USE WITH A GIVEN CLASS, LEAVING THE DECISION AS TO WHICH MATERIAL TO USE WITH THE TEACHER. EACH UNIT IS SELF CONTAINED AND MAY BE USED INDEPENDENTLY OF THE OTHERS. A BIBLIOGRAPHY OF LEARNING MATERIALS IS INCLUDED WITH EACH UNIT AND A BIBLIOGRAPHY OF FREE AND INEXPENSIVE MATERIALS APPENDS THE GUIDE. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (BC)

REPORT NUMBER: DPSC 67-4120

INSTITUTION NAME: NATUREALM, DUNCANSVILLE, PA.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF ELEMENTARY AND SECONDARY EDUCATION.

ACCESSION NUMBERS: ED027194 SE005891

PUBLICATION DATE: OCT 67

TITLE: REPORT OF THE ACTION COMMITTEE ON NATURAL RESOURCES.

PERSONAL AUTHOR: DILS, R. E.; AND OTHERS

INSTITUTION CODE: HUR17905

SPONSORING AGENCY CODE: BBB01384

DESCRIPTOR: BIOLOGICAL SCIENCES; *COLLEGE SCIENCE; CONFERENCE REPORTS; *CURRICULUM; MATHEMATICS; *NATURAL RESOURCES; PHYSICAL SCIENCES; UNDERGRADUATE STUDY

IDENTIFIER: COMMISSION ON UNDERGRADUATE EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.85

DESCRIPTIVE NOTE: 15P.

ISSUE: RIEJUL69

THIS REPORT DEALS PRIMARILY WITH EDUCATION IN THE BIOLOGICAL SCIENCES AS A PART OF THE TRAINING OF THE NATURAL RESOURCE SPECIALIST AND SECONDARILY WITH THE MATHEMATICS AND PHYSICAL SCIENCE ASPECTS OF HIS TRAINING. THE FIRST PART OF THE REPORT PRESENTS THE RATIONALE FOR THE PROPOSED PROGRAM. THE PROPOSAL CALLS FOR A TWO-YEAR CORE PROGRAM. THE FIRST YEAR IS TO INCLUDE FUNDAMENTALS OF BIOLOGY WITH EQUAL EMPHASIS ON THE STUDY OF PLANTS AND ANIMALS. THE SECOND YEAR INCLUDES GENETICS, PHYSIOLOGY AND ECOLOGY USING THE CONCEPTS AND PRINCIPLES OF THE FIRST YEAR AS BUILDING BLOCKS. ECOLOGY IS STRESSED AS FUNDAMENTALLY IMPORTANT. A SUGGESTED OUTLINE FOR STUDY IN ECOLOGY IS PRESENTED IN THE APPENDIX. THE REPORT BRIEFLY DISCUSSES TRAINING BEYOND A TWO-YEAR PROGRAM. RECOMMENDATIONS FOR TRAINING IN MATHEMATICS AND THE PHYSICAL SCIENCES ARE THEN PRESENTED WITH DETAILED OUTLINES OF THE CONTENT TO BE COVERED IN CALCULUS, PROBABILITY, LINEAR ALGEBRA, AND BIOMETRICS. (BC)

INSTITUTION NAME: COMMISSION ON UNDERGRADUATE EDUCATION IN BIOLOGICAL SCIENCE.

SPONSORING AGENCY NAME: COMMISSION ON EDUCATION IN AGRICULTURE AND NATURAL RESOURCES, WASHINGTON, D.C.

ACCESSION NUMBERS: ED027071 PS001546

PROGRAM AREA: 24

PUBLICATION DATE: AUG 68

TITLE: THE INITIAL PHASE OF A PRESCHOOL CURRICULUM DEVELOPMENT PROJECT. FINAL REPORT.

PERSONAL AUTHOR: HOOPER, FRANK H.; MARSHALL, WILLIAM H.

INSTITUTION CODE: BBB01368

SPONSORING AGENCY CODE: AWT03075

DESCRIPTOR: BEHAVIORAL OBJECTIVES; BIBLIOGRAPHIES; CHILD REARING; *COGNITIVE ABILITY; CONSERVATION (CONCEPT); CULTURAL DIFFERENCES; CULTURAL FACTORS; *CURRICULUM DEVELOPMENT; INTERVENTION; LITERATURE REVIEWS; LOGICAL THINKING; *PILOT PROJECTS; PRESCHOOL CHILDREN; *PRESCHOOL CURRICULUM; PUBLIC SCHOOL SYSTEMS; *RESEARCH PROJECTS

IDENTIFIER: APPALACHIA

EDRS PRICE: EDRS PRICE MF-$1.25 HC-$16.45

DESCRIPTIVE NOTE: 327P.

ISSUE: RIEJUL69

WHILE THE PURPOSE OF THIS PROJECT WAS CURRICULUM DEVELOPMENT, LONG RANGE BENEFITS ARE CONTINGENT UPON A RADICAL REORGANIZATION AND UPGRADING OF PUBLIC SCHOOL SYSTEMS THROUGHOUT APPALACHIA. SUBJECTS IN THE PILOT ASSESSMENT CONSISTED OF 82 CHILDREN (3 1/2 TO 6 1/2 YEARS OLD) AND THEIR MOTHERS FROM EACH OF MONONGALIA AND UPSHUR COUNTIES, WEST VIRGINIA. MOTHERS WERE GIVEN A DEMOGRAPHIC CHILD-REARING PRACTICES INTERVIEW-QUESTIONNAIRE. CHILDREN WERE DIVIDED INTO TWO GROUPS AND WERE GIVEN DIFFERENT BATTERIES OF TESTS. THEIR PERFORMANCE REVEALED CULTURAL DIVERSITY RATHER THAN UNIFORM COGNITIVE-INTELLECTUAL DEFICITS. CLEAREST DEFICITS CENTERED ON VERBAL TASKS OR PROBLEM SETTINGS WHICH DEMANDED SYMBOLIC REPRESENTATION, WHICH APPEARED TO INCREASE IN SEVERITY IN DISADVANTAGED CHILDREN. SPATIAL REASONING, MEMORY FUNCTIONS, AND CONSERVATION OR LOGICAL OPERATIONS SKILLS DID NOT APPEAR IMPAIRED. A SECTION ON BEHAVIORAL OBJECTIVES FOR A PRESCHOOL CURRICULUM IS OUTLINED IN THE DOCUMENT, AND A SECTION IS DEVOTED TO A SURVEY OF REPRESENTATIVE PRESCHOOL INTERVENTION RESEARCH. AN EXTENSIVE BIBLIOGRAPHY IS APPENDED. (DO)

CONTRACT NUMBER: OEC-3-7-062902-3070

BUREAU NUMBER: BR-6-2909

INSTITUTION NAME: WEST VIRGINIA UNIV., MORGANTOWN. DIV. OF FAMILY RESOURCES.

SPONSORING AGENCY NAME: APPALACHIA EDUCATIONAL LAB., CHARLESTON, W. VA.

ACCESSION NUMBERS: ED026980 HE000774

PROGRAM AREA: 24

PUBLICATION DATE: 31 DEC 68

TITLE: A MODEL OPTION OF COURSES FOR INSTRUCTION IN WILDLAND RECREATION MANAGEMENT AT THE COLLEGE UNDERGRADUATE LEVEL.

PERSONAL AUTHOR: BURY, RICHARD L.

INSTITUTION CODE: BEI65025

SPONSORING AGENCY CODE: RMQ66004

DESCRIPTOR: *CURRICULUM; EDUCATIONAL NEEDS; EDUCATIONAL PHILOSOPHY; FORESTRY; *HIGHER EDUCATION; *LAND USE; *MANAGEMENT EDUCATION; *RECREATION; WILDLIFE MANAGEMENT

IDENTIFIER: *WESTERN NATIONAL FORESTS

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.45

DESCRIPTIVE NOTE: 87P.

ISSUE: RIEJUL69

RECREATIONAL USE OF WILDLAND IS GROWING RAPIDLY AND FORMS A MAJOR PORTION OF THE MANAGER'S JOB. ABOUT ONE-THIRD OF TODAY'S FORESTRY STUDENTS WILL BE EMPLOYED BY LAND MANAGEMENT AGENCIES OR BY COMPANIES COMMITTED TO THE MULTIPLE-USE CONCEPT. EDUCATION, COURSE MATERIALS AND THE SUPPLY OF FOREST MANAGEMENT GRADUATES HAVE LAGGED CONSIDERABLY BEHIND NEEDS AND THE DEMAND FOR PUBLISHED INFORMATION ON MANAGERIAL SKILLS AND FOR QUALIFIED PERSONNEL IS INCREASING. TO HELP MEET THESE NEEDS, THIS REPORT CONTAINS INFORMATION ON THE CURRENT AND EXPECTED NATURE OF THE RECREATION MANAGEMENT JOB ON THE WESTERN NATIONAL FORESTS; JUDGMENTS OF RECREATION MANAGERS ON EDUCATIONAL DEFICIENCIES OF FORESTRY GRADUATES AND RECOMMENDATIONS FOR CHANGES IN FORESTRY EDUCATION; BASIC PHILOSOPHIES OF EDUCATION AND RECREATION MANAGEMENT ACCEPTED AS GUIDES IN COURSE DEVELOPMENT; A GENERAL FRAMEWORK FOR THE TECHNICAL CONTENT OF A COURSE IN WILDLAND RECREATION MANAGEMENT; AND A GROUP OF 4 COURSES GEARED TO THE ABOVE FACTORS. THE PROPOSED COURSES SHOULD PROVIDE EDUCATORS WITH A USEFUL SOURCE FOR PREPARING THEIR OWN COURSES IN RECREATION MANAGEMENT WITHIN THE MULTIPLE-USE CONTEXT. FOUR CATEGORIES OF LITERATURE WERE REVIEWED AND UTILIZED IN IMPLEMENTING THE PROJECT: METHODS OF RESEARCH IN EDUCATION, METHODS OF JOB ANALYSIS, THEORY OF EDUCATION AND CURRICULUM DEVELOPMENT, TECHNICAL COMPONENTS AND EDUCATION IN WILDLAND RECREATION MANAGEMENT. ADDITIONAL COURSE RECOMMENDATIONS ARE EXPECTED TO APPEAR IN 1969 AS A PUBLICATION OF THE TEXAS AGRICULTURAL EXPERIMENT STATION. (JS)

CONTRACT NUMBER: OEC-4-7-068549-0225

BUREAU NUMBER: BR-6-8549

INSTITUTION NAME: NORTHERN ARIZONA UNIV., FLAGSTAFF.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBERS: ED026282 SE006346

PUBLICATION DATE: DEC 68

TITLE: SCIENCE EDUCATION INFORMATION REPORT, GENERAL BIBLIOGRAPHY SERIES 16, TEACHER RESOURCE MATERIALS.

INSTITUTION CODE: RUF24927

DESCRIPTOR: AUDIOVISUAL AIDS; *BIBLIOGRAPHIES; COLLEGE SCIENCE; CONSERVATION EDUCATION; CURRICULUM GUIDES; ELEMENTARY SCHOOL SCIENCE; FILMS; FILMSTRIPS; HEALTH EDUCATION; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; PHYSICAL SCIENCES; *RESOURCE MATERIALS; SCIENCE ACTIVITIES; *SCIENCE EDUCATION; SECONDARY SCHOOL SCIENCE; TEACHING GUIDES; TELEVISED INSTRUCTION

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.75

DESCRIPTIVE NOTE: 93P.

ISSUE: RIEJUN69

THIS IS THE SIXTH IN THE SECOND SERIES OF GENERAL BIBLIOGRAPHIES DEVELOPED TO DISSEMINATE INFORMATION ON DOCUMENTS ANALYZED AT THE ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION. REPORTED ARE SOME 332 CITATIONS OF SELECTED DOCUMENTS INVOLVING TEACHER RESOURCE MATERIALS FOR SCIENCE EDUCATION. THE DOCUMENTS INCLUDED ARE DIVIDED INTO MAJOR SUBJECT AREAS AND LEVELS IN THE FIELD FOR QUICK TEACHER REFERENCE, AND REPRESENT PAPERS, TEACHER TIPS, CONFERENCE REPORTS, MANUALS, SPEECHES, TEXTBOOKS, AND OTHER TYPES. CITATIONS ARE LISTED IN ALPHABETICAL ORDER BY AUTHOR AND INDICATE SOURCE, AVAILABILITY, AND MAJOR IDEAS OF THE DOCUMENT. THIS BIBLIOGRAPHY IS AVAILABLE AT NO COST, WHILE THE SUPPLY LASTS, FROM THE ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, 1460 WEST LANE AVENUE, COLUMBUS, OHIO 43221. IT UPDATES, BUT DOES NOT REPLACE, THE EARLIER BIBLIOGRAPHY PRODUCED IN THIS AREA BY THE CENTER. (GR)

INSTITUTION NAME: ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, COLUMBUS, OHIO.

ACCESSION NUMBERS: ED026280 SE006344

PUBLICATION DATE: DEC 68

TITLE: SCIENCE EDUCATION INFORMATION REPORT, GENERAL BIBLIOGRAPHY SERIES 14, CURRICULUM.

INSTITUTION CODE: RUF24927

DESCRIPTOR: *BIBLIOGRAPHIES; COLLEGE SCIENCE; CONSERVATION EDUCATION; *CURRICULUM; *CURRICULUM DEVELOPMENT; CURRICULUM GUIDES; ELEMENTARY SCHOOL SCIENCE; *INSERVICE EDUCATION; INTEGRATED CURRICULUM; INTERNATIONAL EDUCATION; MATHEMATICS; OUTDOOR EDUCATION; *SCIENCE EDUCATION; SECONDARY SCHOOL SCIENCE; TEACHER EDUCATION; TEACHING GUIDES

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$5.00

DESCRIPTIVE NOTE: 118P.

ISSUE: RIEJUN69

THIS IS THE FOURTH IN THE SECOND SERIES OF GENERAL BIBLIOGRAPHIES DEVELOPED TO DISSEMINATE INFORMATION ON DOCUMENTS ANALYZED AT THE ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION. REPORTED ARE SOME 424 CITATIONS OF SELECTED DOCUMENTS RELATED TO CURRICULUM AND CURRICULUM DEVELOPMENT IN SCIENCE EDUCATION. THE DOCUMENTS INCLUDED REPRESENT RESEARCH REPORTS, RESEARCH REVIEWS, MANUALS, SPEECHES, TEXTBOOKS AND OTHER TYPES. CITATIONS ARE LISTED IN ALPHABETICAL ORDER BY AUTHOR AND INDICATE SOURCE, AVAILABILITY, AND MAJOR IDEAS OF THE DOCUMENT. THIS BIBLIOGRAPHY IS AVAILABLE AT NO COST, WHILE THE SUPPLY LASTS, FROM THE ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, 1460 WEST LANE AVENUE, COLUMBUS, OHIO 43221. IT UPDATES, BUT DOES NOT REPLACE, THE EARLIER BIBLIOGRAPHY PRODUCED IN THIS AREA BY THE CENTER. (GR)

INSTITUTION NAME: ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, COLUMBUS, OHIO.

ACCESSION NUMBERS: ED025618 VT006409

PUBLICATION DATE: 31 MAY 68

TITLE: PROGRAM OF TEACHER EDUCATION FOR ENVIRONMENTAL TECHNOLOGY (POTEET).

INSTITUTION CODE: MVK57215

SPONSORING AGENCY CODE: BBB00430; BBB01028

DESCRIPTOR: AIR POLLUTION CONTROL; *COLLEGE TEACHERS; COMMUNITY COLLEGES; CURRICULUM DEVELOPMENT; EDUCATIONAL PROGRAMS; *ENVIRONMENTAL TECHNICIANS; HEALTH OCCUPATIONS EDUCATION; HUMAN ENGINEERING; *PROGRAM DESCRIPTIONS; PUBLIC HEALTH; SANITATION; SCHOLARSHIPS; *TEACHER EDUCATION; *TEACHER RECRUITMENT; TEACHER SHORTAGE; WATER RESOURCES

IDENTIFIER: ENVIRONMENTAL TECHNOLOGY; *PROGRAM OF TEACHER EDUCATION FOR ENVIRONMENTAL TE

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.85

DESCRIPTIVE NOTE: 15P.

ISSUE: RIEMAY69

THE ENVIRONMENTAL TECHNICIAN, A NEW BUT NECESSARY SUBORDINATE OF A PROFESSIONAL ENVIRONMENTALIST, MIGHT BE EMPLOYED BY A HEALTH DEPARTMENT, NATURAL RESOURCES COMMISSION, STATE AGRICULTURE DEPARTMENT, MUNICIPAL WATER PLANT, OR BY BUSINESS OR INDUSTRY IN SELF-INSPECTION AND CORRECTIVE ACTIVITIES. THE PROGRAM OF TEACHER EDUCATION FOR ENVIRONMENTAL TECHNOLOGY, BY DEVELOPING TEACHER TRAINING IN THE FIELD OF ENVIRONMENTAL HEALTH, HOPES EVENTUALLY TO PROMOTE THE ENVIRONMENTAL TECHNICIAN AND FREE THE PROFESSIONAL FOR MANAGERIAL RESPONSIBILITIES. THE PROJECT PROPOSES (1) TO EVALUATE THE TRAINEE'S AREAS OF COMPETENCE, AND (2) TO COME TO MUTUAL AGREEMENT WITH THE SELECTED COMMUNITY COLLEGE ABOUT THE KINDS OF EXPERIENCE IN THE CLASSROOM AND ON THE JOB THAT WOULD BEST PREPARE THE TRAINEE FOR HIS NEW EXPERIENCES. THE TRAINING WOULD CONSIST MAINLY OF UNIVERSITY STUDY WITH RELATED TEACHING EXPERIENCES IN THE COMMUNITY COLLEGE. THE INDIVIDUAL WOULD SPEND AT LEAST SOME TIME AT THE TRAINING CENTER OPERATED IN COOPERATION WITH THE UNIVERSITY OF MICHIGAN SCHOOL OF PUBLIC HEALTH, STUDYING THE DEVELOPMENT AND APPLICATION OF STANDARDS IN ENVIRONMENTAL HEALTH. POTENTIAL ENVIRONMENTAL TECHNOLOGY TEACHERS MIGHT BE PRACTITIONERS IN THE FIELD OR TEACHERS IN RELATED FIELDS. OTHER FUNCTIONS OF THE PROJECT WILL BE CURRICULUM DEVELOPMENT AND STUDENT RECRUITMENT. (JK)

INSTITUTION NAME: NATIONAL SANITATION FOUNDATION, ANN ARBOR, MICH.

SPONSORING AGENCY NAME: KELLOG (W.K.) FOUNDATION, BATTLE CREEK, MICH.; STATLER FOUNDATION, NEW YORK, N.Y.

ACCESSION NUMBERS: ED023503 RC002547

PUBLICATION DATE: 68

TITLE: CAMPING AND OUTDOOR EDUCATION.

PERSONAL AUTHOR: BUCHER, CHARLES A.

DESCRIPTOR: ATHLETIC ACTIVITIES; CAMP COUNSELORS; *CAMPING; CONSERVATION EDUCATION; *CURRICULUM DEVELOPMENT; HANDICRAFTS; INTELLECTUAL DEVELOPMENT; *INTERDISCIPLINARY APPROACH; *OUTDOOR EDUCATION; *RECREATIONAL ACTIVITIES; RURAL EDUCATION; SAFETY EDUCATION; SCIENCE EDUCATION; SUPERVISION; TEACHER EDUCATION CURRICULUM

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 16P.; CHAPTER 10 OF FOUNDATIONS OF PHYSICAL EDUCATION.

ISSUE: RIEMAR69

OUTDOOR EDUCATION HAS BECOME AN INTEGRAL PART OF THE CURRICULUM IN A NUMBER OF SCHOOLS ACROSS THE NATION. OUTDOOR EDUCATION ACTIVITIES CAN BE READILY INTEGRATED INTO PHYSICAL EDUCATION, RECREATION, AND ADULT EDUCATION PROGRAMS, AS WELL AS SCIENCE, MATHEMATICS, AND RELATED FIELDS. CAMPING AND OUTDOOR EDUCATION SHOULD BECOME A PART OF EACH CHILD'S SCHOOL EXPERIENCE SINCE THEY CAN CONTRIBUTE SIGNIFICANTLY TO HIS INTELLECTUAL DEVELOPMENT. IT IS RECOMMENDED THAT INSTITUTIONS OF HIGHER LEARNING, ESPECIALLY TEACHER TRAINING INSTITUTIONS, PROVIDE MORE ACTUAL EXPERIENCE IN THE OUTDOORS, AND PROVIDE ADDED PROFESSIONAL PREPARATION OPPORTUNITIES THROUGH COURSE OFFERINGS IN CAMP ADMINISTRATION, CRAFTS, GUIDANCE, AND ACTUAL CAMP SUPERVISION EXPERIENCE. AN INTERDISCIPLINARY APPROACH IS AN IDEAL WAY TO PREPARE LEADERS FOR OUTDOOR EDUCATION. (DA)

AVAILABILITY: THE C.V. MOSBY COMPANY, ST. LOUIS, MISSOURI 63166 ($8.90).

ACCESSION NUMBERS: ED022435 JC680296

PUBLICATION DATE: JUN 68

TITLE: FOREST TECHNOLOGY: SELECTED TWO-YEAR PROGRAMS AND THEIR GRADUATES.

PERSONAL AUTHOR: BACKELS, JOHN E.

INSTITUTION CODE: HWP26380

DESCRIPTOR: COLLEGE CURRICULUM; COLLEGE GRADUATES; COLLEGE INSTRUCTION; *COLLEGE PROGRAMS; COLLEGE STUDENTS; CONSERVATION EDUCATION; *CURRICULUM DEVELOPMENT; CURRICULUM RESEARCH; FOLLOWUP STUDIES; *FORESTRY; *GRADUATE SURVEYS; INCOME; *JUNIOR COLLEGES; QUESTIONNAIRES; VOCATIONAL FOLLOWUP

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 219P.

ISSUE: RIEFEB69

OF THE 27 AMERICAN INSTITUTIONS WHICH OFFER FOREST TECHNOLOGY PROGRAMS, ONLY TWO--LASSEN COLLEGE (CALIF.) AND PAUL SMITH'S COLLEGE (NEW YORK)--HAVE HAD SUCH PROGRAMS FOR 20 OR MORE YEARS. RESPONSES FROM 324 OF THE TWO INSTITUTION'S 636 TOTAL GRADUATES (PRIOR TO THE CLASSES OF 1968) INDICATED WHERE AND IN WHAT CAPACITIES THEY WERE EMPLOYED. OF THE 61% WHO WERE EMPLOYED IN FORESTRY-RELATED OCCUPATIONS, 50% WERE EMPLOYED IN PUBLIC FORESTRY, 46% WERE IN PRIVATE FORESTRY, AND 4% WERE IN EDUCATIONAL INSTITUTIONS. THE MEDIAN INCOME FOR FOREST TECHNICIANS IN 1967 WAS $5,300 WITH A YEAR OR LESS OF EXPERIENCE, $6,500 WITH FIVE YEARS OF EXPERIENCE, AND $9,160 WITH 15 OR MORE YEARS OF EXPERIENCE. DUTIES MOST COMMONLY ASSIGNED WERE SURVEYING (IN 50% OF THE CASES) AND FOREST MANAGEMENT, FIRE CONTROL, SILVICULTURE, FORESTRY INVENTORY, AND FOREST RECREATION (IN 25% OF THE CASES). PROGRAM CHARACTERISTICS AT THE TWO SCHOOLS CONSTITUTED THE PLATFORM UPON WHICH 11 RECOMMENDATIONS WERE MADE FOR CURRICULUM IMPROVEMENT IN ALL INSTITUTIONS OFFERING PROGRAMS IN FORESTRY TECHNOLOGY. (DG)

AVAILABILITY: UNIVERSITY MICROFILMS, INC., P.O. BOX 1346, ANN ARBOR, MICHIGAN 48106.

INSTITUTION NAME: FLORIDA STATE UNIV., TALLAHASSEE. GRADUATE SCHOOL.

ACCESSION NUMBERS: ED021772 SE005048

PUBLICATION DATE: MAY 68

TITLE: SCIENCE EDUCATION INFORMATION REPORT, GENERAL BIBLIOGRAPHY SERIES 6, TEACHER RESOURCE MATERIALS.

INSTITUTION CODE: RUF24927

DESCRIPTOR: AUDIOVISUAL AIDS; *BIBLIOGRAPHIES; BIOLOGICAL SCIENCES; CHEMISTRY; COLLEGE SCIENCE; CONSERVATION EDUCATION; CURRICULUM GUIDES; EARTH SCIENCE; ELEMENTARY SCHOOL SCIENCE; FILMS; FILMSTRIPS; HEALTH EDUCATION; INSTRUCTION; PHYSICAL SCIENCES; PHYSICS; *RESOURCE MATERIALS; RESOURCE UNITS; SCIENCE ACTIVITIES; SECONDARY SCHOOL SCIENCE; TELEVISED INSTRUCTION

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.72

DESCRIPTIVE NOTE: 91 .

ISSUE: RIEJAN69

THIS IS THE SIXTH IN A SERIES OF GENERAL BIBLIOGRAPHIES WHICH ARE BEING DEVELOPED TO DISSEMINATE INFORMATION CONCERNING DOCUMENTS ANALYZED AT THE ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION. REPORTED ARE OVER 400 CITATIONS TO SELECTED DOCUMENTS INVOLVING TEACHER RESOURCE MATERIALS FOR SCIENCE EDUCATION. THE DOCUMENTS INCLUDE CONFERENCE REPORTS, PROJECT REPORTS, POSITION PAPERS, TEXTBOOKS, MANUALS, AND SPEECHES. THE CITATIONS ARE CATEGORIZED UNDER GRADE LEVEL AND CONTENT AREAS IN ALPHABETICAL ORDER BY AUTHOR AND INDICATE THE AVAILABILITY AND MAJOR IDEAS OF THE DOCUMENT. GENERAL BIBLIOGRAPHIES HAVE BEEN OR ARE BEING PREPARED FOR OTHER SELECTED AREAS IN SCIENCE EDUCATION. ALL BIBLIOGRAPHIES WILL BE SUPPLEMENTED PERIODICALLY AS MORE DOCUMENTS ARE PROCESSED BY THE ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION. (DS)

INSTITUTION NAME: ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, COLUMBUS, OHIO.

ACCESSION NUMBERS: ED021766 SE004994

PUBLICATION DATE: MAY 68

TITLE: SCIENCE EDUCATION INFORMATION REPORT, GENERAL BIBLIOGRAPHY SERIES 8, LEGISLATIVE ACTS AND REPORTS, ADMINISTRATION AND SUPERVISION, SCIENCE FACILITIES.

INSTITUTION CODE: RUF24927

DESCRIPTOR: *ADMINISTRATION; ASTRONOMY; *BIBLIOGRAPHIES; BIOLOGICAL SCIENCES; CHEMISTRY; COLLEGE SCIENCE; CONSERVATION EDUCATION; CURRICULUM; DOCTORAL THESES; EARTH SCIENCE; ELEMENTARY SCHOOL SCIENCE; FEDERAL AID; FEDERAL PROGRAMS; GENERAL SCIENCE; INSTRUCTIONAL MATERIALS; *LEGISLATION; MATHEMATICS EDUCATION; OUTDOOR EDUCATION; *SCIENCE FACILITIES; SECONDARY SCHOOL SCIENCE; *SUPERVISION

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.64

DESCRIPTIVE NOTE: 14P.

ISSUE: RIEJAN69

THIS IS THE EIGHTH IN A SERIES OF GENERAL BIBLIOGRAPHIES WHICH ARE BEING DEVELOPED TO DISSEMINATE INFORMATION CONCERNING DOCUMENTS ANALYZED AT THE ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION. REPORTED ARE OVER 30 CITATIONS TO SELECTED DOCUMENTS IN THE AREAS OF (1) LEGISLATIVE ACTS AND REPORTS, (2) ADMINISTRATION AND SUPERVISION, AND (3) SCIENCE FACILITIES. THE DOCUMENTS INCLUDE RESEARCH REPORTS, RESEARCH REVIEWS, CONFERENCE REPORTS, PROJECT REPORTS, POSITION PAPERS, MANUALS, AND SPEECHES. THE CITATIONS ARE CATEGORIZED UNDER THE MAJOR AREAS IN ALPHABETICAL ORDER BY AUTHOR AND INDICATE THE AVAILABILITY AND MAJOR IDEAS OF THE DOCUMENT. GENERAL BIBLIOGRAPHIES HAVE BEEN OR ARE BEING PREPARED FOR OTHER SELECTED AREAS IN SCIENCE EDUCATION. ALL BIBLIOGRAPHIES WILL BE SUPPLEMENTED PERIODICALLY AS MORE DOCUMENTS ARE PROCESSED BY THE ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION. (DS)

INSTITUTION NAME: ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, COLUMBUS, OHIO.

ACCESSION NUMBERS: ED020916 SE004914

PUBLICATION DATE: APR68

TITLE: SCIENCE EDUCATION INFORMATION ANALYSIS CENTER NEWSLETTER.

INSTITUTION CODE: RUF24927

DESCRIPTOR: ART; BIOLOGICAL SCIENCES; *CONSERVATION EDUCATION; CURRICULUM DEVELOPMENT; *DIRECTORIES; ECOLOGY; EDUCATIONAL PROGRAMS; *ELEMENTARY SCHOOL SCIENCE; HANDICAPPED STUDENTS; LANGUAGE ARTS; MATHEMATICS EDUCATION; MUSIC; NATURAL RESOURCES; NATURE CENTERS; NEWSLETTERS; OCEANOLOGY; *OUTDOOR EDUCATION; PHYSICAL EDUCATION; PHYSICAL SCIENCES; PROGRAM DESCRIPTIONS; *SECONDARY SCHOOL SCIENCE; SOCIAL STUDIES

IDENTIFIER: EARTH SCIENCES; SCIENCE EDUCATION INFORMATION ANALYSIS CENTER

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.68

DESCRIPTIVE NOTE: 15P.

ISSUE: CUMREPT

THE PRINCIPAL FOCUS OF THIS NEWSLETTER IS PROVIDING A DIRECTORY OF OUTDOOR EDUCATION PROGRAMS IN THE UNITED STATES. THE INFORMATION IS DIRECTED AT SCHOOLS OR ORGANIZATIONS PLANNING TO DEVELOP SUCH PROGRAMS. THE ENTRIES ARE LISTED ALPHABETICALLY BY STATE. EACH ENTRY CONTAINS (1) THE NAME OF THE PERSON TO CONTACT FOR ADDITIONAL INFORMATION, (2) THE ADDRESS OF THE PROJECT, AND (3) A BRIEF DESCRIPTION OF EACH PROJECT. ALSO PROVIDED ARE INFORMATION ON (1) THE OFFICE OF EDUCATION PUBLICATION "RESEARCH IN EDUCATION" (RIE), AND (2) THE ERIC DOCUMENT REPRODUCTION SERVICE. THIS DOCUMENT IS ALSO AVAILABLE FROM THE ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, 1460 WEST LANE AVENUE, COLUMBUS, OHIO 43221. (DS)

INSTITUTION NAME: ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, COLUMBUS, OHIO.

ACCESSION NUMBERS: ED020146 SE004807

PUBLICATION DATE: 68

TITLE: BIBLIOGRAPHY OF SCIENCE COURSES OF STUDY AND TEXTBOOKS GRADES K-9 1968.

INSTITUTION CODE: FGK57300

DESCRIPTOR: *BIBLIOGRAPHIES; *BIOLOGY; *CHEMISTRY; CONSERVATION EDUCATION; CURRICULUM GUIDES; *EARTH SCIENCE; *ELEMENTARY SCHOOL SCIENCE; *GENERAL SCIENCE; *INSTRUCTIONAL MATERIALS; *JUNIOR HIGH SCHOOLS; LABORATORY MANUALS; OUTDOOR EDUCATION; *PHYSICAL SCIENCES; PROGRAMED MATERIALS; *RESOURCE MATERIALS; SCIENCE COURSE IMPROVEMENT PROJECT; SCIENCE UNITS; *SECONDARY SCHOOL SCIENCE; TEACHING GUIDES; *TEXTBOOKS

EDRS PRICE: EDRS PRICE MF-$0.50 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 63P.

ISSUE: CUMREPT

THIS BIBLIOGRAPHY IS A CONTINUATION OF THE SERIES OF BIBLIOGRAPHIES OF COURSES OF STUDY AND TEXTBOOKS IN SCIENCE BEGUN IN 1959 BY THE NATIONAL SCIENCE TEACHERS ASSOCIATION (NSTA). PART 1 LISTS COURSES OF STUDY ALPHABETICALLY BY STATE UNDER THE CATEGORIES OF (1) COURSES OF STUDY, GRADES K-3, (2) COURSES OF STUDY, GRADES 4-6, (3) LONG-RANGE COURSES OF STUDY, GRADES K-6, (4) LONG-RANGE COURSES OF STUDY, GRADES K-12, (5) JUNIOR HIGH SCHOOL, GRADES 7-9, (6) BIOLOGICAL SCIENCES, GRADES 9-12, (7) EARTH AND SPACE SCIENCE, GRADES 7-12, AND (8) MISCELLANEOUS. INCLUDED FOR EACH COURSE OF STUDY ARE (1) STATE, (2) TITLE, (3) GRADE LEVEL, (4) DATE, (5) COST, AND (6) SOURCE. THE COURSES OF STUDY LISTED ARE THOSE REPORTED AS BEING AVAILABLE FOR CIRCULATION BEYOND THE SCHOOL DISTRICT OR SYSTEM FOR WHICH THEY WERE PREPARED. PART 2 LISTS TEXTBOOKS, LABORATORY MANUALS, PROGRAMED UNITS, TEACHER REFERENCE MATERIAL, AND BOOKS OF EXPERIMENTS. INCLUDED FOR EACH REFERENCE ARE (1) AUTHOR, (2) PUBLISHER, (3) TITLE, (4) DATE, (5) PRICE, AND (6) GRADE. ALL MATERIAL INCLUDED WAS PUBLISHED AFTER 1962. THE INFORMATION WAS CURRENT AS OF NOVEMBER, 1967. PART 3 CONTAINS PUBLICATIONS PREPARED BY SCIENCE COURSE IMPROVEMENT PROJECTS FOR GRADES K-9. INDICATED ARE (1) PROJECT TITLE, (2) LISTINGS OF MATERIALS PRODUCED, (3) STATE OF MATERIALS (EXPERIMENTAL OR FINAL), (4) COST OF MATERIALS, AND (5) ADDRESS OF SOURCE. APPENDED ARE THE ADDRESSES OF THE PUBLISHERS AND TEXTBOOKS IN PRESS OR PUBLISHED SINCE NOVEMBER, 1967. THIS DOCUMENT IS ALSO AVAILABLE FOR $1.00 FROM THE NATIONAL EDUCATION ASSOCIATION, PUBLICATIONS SALES, 1201 SIXTEENTH STREET, N.W., WASHINGTON, D.C. 20036. (DS)

REPORT NUMBER: 471-14298

INSTITUTION NAME: NATIONAL SCIENCE TEACHERS ASSOCIATION, WASHINGTON, D.C.

ACCESSION NUMBERS: ED020145 SE004806

PUBLICATION DATE: APR68

TITLE: SCIENCE POLICY BULLETIN NUMBER 4.

PERSONAL AUTHOR: BRAINARD, ROBERT W.

INSTITUTION CODE: RUF05474

DESCRIPTOR: AGRICULTURE; *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; BIOLOGY; CONFERENCE REPORTS; DEVELOPING NATIONS; ENGINEERING; FEDERAL LEGISLATION; *FINANCIAL SUPPORT; GOVERNMENT ROLE; HIGHER EDUCATION; *INDUSTRY; INFORMATION SCIENCE; INTERNATIONAL PROGRAMS; *NATIONAL PROGRAMS; *NATURAL RESOURCES; NEWSLETTERS; OCEANOLOGY; PHYSICS; *RESOURCE MATERIALS; *SCIENCES; *SCIENTIFIC RESEARCH; SOCIOECONOMIC INFLUENCES; TECHNOLOGICAL ADVANCEMENT; *TECHNOLOGY

IDENTIFIER: BATELLE MEMORIAL INSTITUTE; NATIONAL SCIENCE FOUNDATION

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$2.80

DESCRIPTIVE NOTE: 68P.

ISSUE: CUMREPT

THIS BULLETIN, PUBLISHED BIMONTHLY, REPORTS THE CURRENT LITERATURE IN THE AREA OF SCIENCE AND PUBLIC POLICY. THE COVERAGE ENCOMPASSES BOTH "POLICY FOR SCIENCE" AND "SCIENCE FOR POLICY" MATTERS. SCIENCE IS USED TO DENOTE ENGINEERING, TECHNOLOGY, AND SCIENCE. THE BULLETIN IS INTENDED FOR PERSONS ENGAGED IN STUDYING, FORMULATING, AND IMPLEMENTING PUBLIC POLICY RELATING TO SCIENCE AND ITS USE. ITS PURPOSE IS TO AID SUCH INDIVIDUALS BY ALERTING THEM TO NEW ADDITIONS TO THE SCIENCE POLICY LITERATURE. THE INFORMATION PRESENTED CONSISTS PRINCIPALLY OF A BIBLIOGRAPHIC LISTING, SOME ANNOTATED, OF CURRENT PUBLICATIONS IN THE AREA. PUBLICATIONS OF A HIGHLY TECHNICAL AND NARROWLY SPECIALIZED NATURE ARE EXCLUDED. THE BIBLIOGRAPHIC INFORMATION IS PRESENTED UNDER A NUMBER OF TOPICAL CATEGORIES--(1) GENERAL, (2) SCIENCE, DOMESTIC PROBLEMS, AND NATIONAL GOALS, (3) NEEDS AND ALLOCATION OF RESOURCES FOR SCIENCE, (4) NATIONAL R AND D PROGRAMS, (5) SCIENCE, EDUCATION, AND THE UNIVERSITY, (6) SCIENCE MANAGEMENT AND POLICY MAKING BODIES, (7) SCIENCE, FOREIGN AFFAIRS, AND NATIONAL DEFENSE, AND (8) SCIENCE POLICY IN FOREIGN COUNTRIES. EACH CITED PUBLICATION IS RECORDED UNDER A SINGLE CATEGORY. CROSS INDEXING IS NOT USED. MAJOR MEETINGS AND OTHER EVENTS IN THE SUBJECT AREA ARE ALSO REPORTED. (DS)

INSTITUTION NAME: BATTELLE MEMORIAL INST., COLUMBUS, OHIO. COLUMBUS LABS.

ACCESSION NUMBERS: ED020129 SE004306

TITLE: TEACHER'S GUIDE TO OUTDOOR EDUCATION.

PERSONAL AUTHOR: RYAN, ARTHUR J.

INSTITUTION CODE: QAT42810

DESCRIPTOR: ART; BIBLIOGRAPHIES; BIOLOGY; CONSERVATION EDUCATION; *CURRICULUM DEVELOPMENT; EARTH SCIENCE; *EDUCATIONAL OBJECTIVES; *EDUCATIONAL PROGRAMS; *ELEMENTARY SCHOOL SCIENCE; HEALTH EDUCATION; LANGUAGE ARTS; MATHEMATICS; MUSIC; *OUTDOOR EDUCATION; SOCIAL STUDIES; TEACHING GUIDES

IDENTIFIER: ELEMENTARY AND SECONDARY EDUCATION ACT (TITLE 3); UNITED STATES OFFICE OF HEALTH EDUCATION AND WELFARE

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.60

DESCRIPTIVE NOTE: 113P.

ISSUE: CUMREPT

INCLUDED ARE (1) A DESCRIPTIVE BROCHURE, AND (2) A TEACHER'S GUIDE FOR THE UNION COUNTY OUTDOOR EDUCATION CENTER. THE PROGRAM CONSISTS OF A DAY CENTER, WHICH PROVIDES ONE- AND TWO-DAY SESSIONS OF AT LEAST FOUR HOURS DURATION FOR GRADE 5 STUDENTS FROM PUBLIC AND NON-PROFIT SCHOOLS IN UNION COUNTY. THE DESCRIPTIVE BROCHURE RELATES (1) THE LOCATION OF THE AREA, (2) THE HISTORY OF THE AREA, (3) A BRIEF DESCRIPTION OF THE FIELD ACTIVITIES USED IN WORKING WITH VARIOUS DISCIPLINES AND SUGGESTED OUTCOMES, (4) A CHECKLIST OF THE TREES AND BIRDS OF THE AREA, AND (5) A MAP OF THE AREA. THE TEACHER'S GUIDE DISCUSSES (1) A PROGRAM RATIONALE, (2) PROGRAM OBJECTIVES, (3) TEACHER PLANNING INCLUDING ADVANCED PREPARATION, CLASSROOM FOLLOWUP, GROUP CONTROL, AND HEALTH AND SAFETY SUGGESTIONS, AND (4) THE INTEGRATION OF OUTDOOR EDUCATION WITH THE SCHOOL CURRICULUM. A RESIDENT CAMP IS BEING DEVELOPED ON A SEPARATE LOCATION WHICH, WHEN ESTABLISHED, WILL CONCENTRATE ON GRADE 6 STUDENTS AND ALLOW THE DAY CAMP TO CONCENTRATE ON GRADE 5 STUDENTS. APPENDED ARE (1) COPIES OF THE DAILY SCHEDULE AND VARIOUS REQUIRED PERMISSION FORMS, (2) LISTINGS OF ACTIVITIES, (3) SUGGESTED CLASSROOM FOLLOW-UP ACTIVITIES, (4) SOURCES OF PERTINENT PUBLICATIONS, AND (5) AN ANNOTATED BIBLIOGRAPHY. (DS)

REPORT NUMBER: DPSC-66-1161

INSTITUTION NAME: LINDEN BOARD OF EDUCATION, N.J.

ACCESSION NUMBERS: ED020053 RC002487

PUBLICATION DATE: 68

TITLE: EIGHTH GRADE UNIT, SEA--RESTLESS GIANT.

PERSONAL AUTHOR: CHAPMAN, FRANK L.

INSTITUTION CODE: QXM12435

DESCRIPTOR: BIOLOGY INSTRUCTION; CLASSROOM MATERIALS; *INSTRUCTIONAL MATERIALS; MARINE BIOLOGY; *OCEANOLOGY; *OUTDOOR EDUCATION; RESOURCE MATERIALS; RESOURCE UNITS; SCIENCE EDUCATION; *SCIENCE INSTRUCTION; SCIENCE MATERIALS; SCIENCE UNITS; *UNIT PLAN; WATER RESOURCES

IDENTIFIER: ESEA TITLE 3

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.84

DESCRIPTIVE NOTE: 44P.

ISSUE: CUMREPT

AN EIGHTH GRADE UNIT GUIDE ON OCEANOLOGY HAS BEEN DEVELOPED BY THE CARTERET COUNTY PUBLIC SCHOOLS OF BEAUFORT, NORTH CAROLINA. NARRATIVE AND DIAGRAMMATIC DESCRIPTIONS DEAL WITH VARIOUS OCEAN PHENOMENA, SUCH AS TIDES, WAVES, CURRENTS, OCEAN FLOORS, BEACHES, ETC. CLASS QUESTIONS AND DISCUSSION QUESTIONS ARE PROVIDED AT THE END OF EACH SECTION OF THE UNIT. A VOCABULARY LIST IS FOUND AT THE END OF EACH NARRATIVE DISCUSSION. RELATED DOCUMENTS ARE RC 002 486, RC 002 488, AND RC 002 485. (DK)

REPORT NUMBER: DPSC-67-4274

INSTITUTION NAME: CARTERET COUNTY PUBLIC SCHOOLS, BEAUFORT, N.C.